ENUMERATIO PYRENOMYCETUM HYPOCREACEORUM

HUCUSQUE COGNITORUM

SYSTEMATE CARPOLOGICO DISPOSITORUM

AUCTORE

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Fam. **Hypocreaceæ** DNtrs Oss. in Giorn. bot. I. II. 48. 51. *Sacc.* Consp. gener. Pyren. ital. p. 18.

Pyrenomycetes simplices vel compositi. Perithecia subcarnosa v. ceraceo-membranacea, plerumque rubescentia (rarius cyanea, v. flavo-olivacea, v. pallida) numquam carbonacea, ostiolo subcentrali, rotundo dehiscentia. Stroma, ubi adest, molliusculum, carnoso-ceraceum, rarius byssinum. – Asci 4–8–pleiospori, sæpius 8–spori. Sporidia plerumque hyalina, rarius fusca. Status secundarii (*Spermogonia, Pycnidia, Conidiophora*) in plerisque cogniti.

Sect. 1. **Hyalosporæ** Sacc.

Sporidia ovoidea v. suboblonga, continua, hyalina.

+ **Simplices.**
a. **Superficiales.**
* **Perithecia conoidea v. subglobosa.**
§ **Asci octospori.**

1. NECTRIELLA Sacc. Michelia I. 51 (non Fckl.) Perithecia Nectriæ (Cfr. gen 13) – Asci cylindracei. Sporidia ovoidea v. oblonga, absolute continua, hyalina. – Status conidiophori cogniti.

N. Rousseliana (Mtgn.) Sacc. Michelia I. 51. Ad folia Buxi sempervirentis in Italia, Gallia, Germania, Anglia &c. – Asci 60 ✱ 7–8; sporidia 15 ✱ 5. – Status

micro et macro-conidioph. cogniti: *Verticillium Buxi* (Schm.) et *Volutella Buxi* (Cda) Bk.

N. perpusilla (Mtgn.) Sacc. Mich. I. 51. In clava Xylariæ allantodiæ in Cuba et in Europa (Bk) – Asci breve clavati; sporidia oblonga, hyalina. Mtgn. Syll. 225.

N. miltina (Mtgn.) Sacc. Nectria miltina Mtgn. Syll. 225. In foliis Agaves in Algeria, Italia, Gallia, Hispania – Asci cylindraceo-clavati, 65 ⁎ 4; sporidia minutissima, ovoidea, 6 1/2 ⁎ 2. St. conid.: *Tubercularia concentrica* Mtgn.

N. jucunda (Mtgn.) Sacc. Nectria jucunda Mtgn. Syll. 225. Ad ramos Cacti Opuntiæ in Algeria – Asci clavati; sporidia oblonga, hyalina, utrinque guttata.

N. chlorina (Cr.) Sacc. Nectria chlorina Cr. Finist. 37. In caule Angelicæ in Gallia – Asci subcylindrici; sporidia monosticha, ovoidea, continua.

N. chrysites (West.) Sacc. Cfr. Cr. Finist. 37 et Kx Fl. I. 320. In ramis Genistæ, Spartii, Fraxini, Ribis in Gallia, Germania, Belgio – Asci cylindracei. Sporidia ellipsoidea, continua, subinæquilateralia.

Sph. chrysites Wallr. est vera Nectria. Cfr. suo loco.

N. digitalicola (Cr.) Sacc. Nectria dig. Cr. Finist. 37. In caule Digitalis in Gallia – Asci clavati; sporidia oblonga, 1–seriata, continua, hyalina.

N. carnea (Dmz.) Sacc. Nectria carnea Dmz., Tul. In foliis Caricis, Luzulæ, in Gallia, Germania – Asci subclavati, 40 lgi; sporidia oblonga, 10–13 ⁎ 2–3, continua, 3-4–guttulata. St. conidioph. *Psiloniam Pelliculam* Dmz. sistens – An potius Calonectriæ species?

N. Umbelliferarum (Cr.) Sacc. Nectria Umbell. Cr. Finist. 37. In caule Œnanthis crocatæ, Angelicæ, Urticæ &c. in Gallia – Asci clavati; sporidia oblongo–fusoidea, 1–2–sticha, granulosa. An Calonectria?

N. citrina (Cr.) Sacc. Nectria citrina Cr. Finist. 37, non Wallr. In caule Dauci in Gallia – Sporidia ovoidea, continua, 2–guttulata.

N. nigro-viridis (Cr.) Sacc. Nectria nigro-viridis Cr. Finist. 37. In cortice Ligustri in Gallia – Perithecia brevi-pilosa, viridi-olivacea; asci subcylindrici; sporidia ovoidea, 1–sticha, 2–guttulata.

N. thelopsioides (Cr.) Sacc. Nectria thelops. Cr. Finist. 256. In cortice salicino in Gallia - Asci subfusoidei; sporidia oblongo-fusoidea, continua, limbata.

N. offuscata (B. & C.) Nectria offuscata B. & C. Grevill. IV. 45. In Hibisco syriaco in Carolina inf. - Asci clavati; sporidia 2–sticha, oblonga, hyalina.

N. furfurella (B. & Br. 1872) Sacc. Nectria furfurella B. & Br. Grevill. I. 155. In caule Brassicæ - Sporidia ovata, 3 $^1/_2$–5 micr. lg. Conidia nota.

N. Keithii (B. & Br. 1876) Sacc. N. Keithii B. & Br. (Hedw. 1876 p. 62, Just. Jahr. IV. 228) In caule Brassicæ in Anglia. Sporidia continua, ovoidea, 5–6 lga.
An eadem ac *N. furfurella* (B. & Br.)?

N. monilifera (B. & Br.) Sacc. Nectria monilifera B. & Br. F. Ceyl. n. 1007. In ligno putri dejecto - Asci lineares; sporidia globulosa, granulosa, diam. 3 $^3/_4$–5 micr.

N. Bambusæ (B. & Br.) Sacc. Nectria Bambusæ B. & Br. F. Ceyl. n. 1015. Ad Bambusam in Ceylan - Asci breve clavati; sporidia minima, 10 micr. lga.

N. microspora (Cooke & Ell.) Sacc. Nectria microspora C. & E. in Grevillea V. 53. In cortice Magnoliæ New-Jersey - Asci cylindracei; sporidia ovalia, continua, non constricta, 7 $^1/_2 \times 4$, 2–guttulata, hyalina.

§§ **Asci polyspori.**

2. **CHILONECTRIA** Sacc. n. gen. Perithecia Nectriæ. Asci cylindraceo-clavati v. oblongi, polyspori; sporidia exigua ovoidea v. botuliformia, continua, hyalina.

Obs. Sec. nonnullos auct., ex. g. Tul. Nectriæ polysporæ essent meræ formæ Nectriarum octosporarum, sed nova et plena confirmatio adhuc desideratur.

C. myriospora (Cr.) Sacc. Nectria myriospora Cr. Finist. 37.

Hab. in fimo equino in paludibus, æstate, in Gallia.

Char. Perithecia $^1/_5$ mill. flava, sphærica, reticulato-contexta, astoma. Asci crassi, ovoidei, polyspori, paraphysibus filiformibus, curvis obvallati. Sporidia 100–150 perexigua, ovoidea, hyalina. Cr. l. c.

C. Rosellinii (Carest.) Sacc. Nectria Rosellinii Carest. in Rabh. F. E. n. 923 et Hedw. V. p. 190 (1866).

Hab. in ramis Abietis pectinatæ dejectis *a Riva,* 1864.

Char. Pyrenia obovata, collabescentia, in vivo vitellino-coccinea, levia; contextu minute vesiculoso. Asci polyspori (? specim. immat.) cylindracei, apice rotundato, 60 ∗ 10; paraphyses gelatinosæ, crassiusculæ, filiformes. – Quadantenus refert Nectriam decolorantem. Car. l. c.

C. sulphurella (DNtrs) Sacc. Nectria sulphurella DNtrs Recl. Piren. ital. in Comm. critt. II. 477.

Hab. in ramis languentibus Pini Piceæ in sylva *Ambais Hufen* ad Allagna, Italia (Carestia).

Char. Corticola erumpens. Pyrenia e stromate pulvinato, compacto, cæspitulosa, rotundata v. obovoidea, osculo perexiguo demum hiantia, carnea, vertice furfuracea, in sicco pallide furfuraceo-sulphurea. Asci clavati, leptodermi (polyspori). Sporidia (microsporæ) oblonga, exigua, hyalina. Paraphyses rarescentes.

Obs. Nectria chrysites Westend. huic similis est, non tamen identica. DNtrs. l. c.

C. Cucurbitula (Curr.) Sacc. Cfr. Grevillea IV. 16. In ramis putrescentibus in Eur. et Am. (in Salice Romæ!). Asci clavato-fusoidei, myriospori; sporidia minuta curvula 3–5 lga, hyalina.

Obs. Sec. Curr. Comp. Sph. n. 179 in hac eadem specie adsint quoque sporidia continua, ovoidea, 10 lga. hyalina. Sec. Fckl. *Sph. Cucurbitula* Tode est vera *Nectria* sporidiis didymis 12 ∗ 6 (in cortice Pini); sec. Wallroth (ex autopsia Mtgn. Pl. cell. VIII. Cent. p. 72) est *Calonectria.*

Sec. Bk. exstat forma *Nectriæ inauratæ* B. & Br. ascis polysporis donata. – Sec. DNtrs Osserv. l. c. *Sphæria coccinea* Fr. Scler. n. 185 (non auct.) ascos polysporos gerit.

∗∗ Perithecia cylindraceo-subulata.

3. **ELEUTHEROMYCES** Fckl. Symb. 183. Perithecia e basi subglobosa cylindraceo-subulata, subdiaphana. Asci cylin-

dracei. Sporidia ovoideo-cylindracea, utrinque setulâ aucta, continua, hyalina. Stat. conidicus *Isariam* sistens.

E. **subulatus** (Tode) Fckl. Symb. 183. In Agaricis putridis in Italia, Germania, etc. – Asci cylindracei 52 ✶ 2 $^1/_2$; sporidia subfusoidea, utrinque ciliata, 5–6 ✶ 1 $^1/_2$–2 $^1/_2$, hyalina. St. conidioph.: *Isaria brachiata* Schum.

b. **Immersæ.**

4. **HYPONECTRIA** Sacc. Michel. II. 250. Perithecia simplicia, tecta, contextu nectriaceo molli laxe parenchymatico; asci octospori; sporidia ovata v. oblonga, continua, hyalina.

H. **Buxi** (DC.) Sacc. Michel. II. 250 et F. ital. tab. 200. In foliis Buxi (et Quercus Ilicis) in Italia, Gallia, Germania, Anglia – Asci cylindracei, 80–90 ✶ 10–12; sporidia oblonga, 16–18 ✶ 6–7, granulosa, hyalina.

++ **Stromaticæ.**

5. **MONOGRAPHOS** Fckl. Symb. App. III. 21. Stroma sub epidermide nigrificata lirelliforme, diaphanum; loculi plerumque 1-seriales, majusculi, candidi. Asci octospori; sporidia fusoidea v. elongata, continua, hyalina.

M. **Aspidiorum** (Lib.) Fckl. l. c. Sphæria Aspidiorum Lib. In stipitibus Pteridis aquilinæ in Gallia et Germania – Asci 70 ✶ 8; sporidia 26 ✶ 4.

6. **WINTERIA** Sacc. Hypocreopsis Wint. Hedw. 1875 p. 26. (non Karst.) Stroma rubrum, verruciforme, villosulum. Perithecia immersa – Asci ventricosi, 4–8–spori. Sporidia late ellipsoidea, continua, hyalina.

W. **pulchra** (Wint.) Sacc. Hyp. pulcra Wint. Hedw. 1875 p. 26-27. In stercore pecorino in Germania – Asci oblongo-ventricosi, paraphysati, 170 ✶ 52, 4–8spori; sporidia late ellipsoidea utrinque acutiuscula, continua, hyalina, 56 ✶ 30.

7. **POLYSTIGMA** Pers. ap. Moug. et Nest. n. 270. Stroma subcarnosum effusum parenchymati foliorum innatum, ochraceum, fulvum v. rubrum Perithecia immersa – Asci 8spori.

Sporidia ovoidea continua. St. spermog. *Libertellam rubram* Bon. &c. sistens.

P. ochraceum (Wahlg.) Sacc. Consp. Pyr. 20. Sphæria ochracea Wahlg. (1812) Polys. fulvum DC. (1817). In foliis vivis Pruni Padi. Ascos non vidi, nec descriptos reperi.

P. ochraceum *aurantiacum West. In foliis Pyri in Hollandia.

P. rubrum (Pers.) DC. Mem. Mus. p. 337. In foliis Pruni domesticæ, spinosæ et insititiæ – Asci clavati; sporidia ovoidea, 10 ∗ 6, subhyalina.

Spermogon: *Libertella rubra* Bon.

Sect. 2. **Phæosporæ** Sacc.

Sporidia ovoidea v. oblonga, continua, fusca.

+ **Asci 4-8-spori.**

8. **SPHÆRODERMA** Fckl. Symb. app. III. 23. Perithecia in subiculo effuso arachnoideo sublibere insidentia, globulosa, hyalina, dein fusca – Asci tetraspori. Sporidia maxima, ellipsoidea, continua, fusca.

S. theleboloides Fckl. Symb. App. III. 23. In fragmentis ligneis terra obvolutis – Asci ovati, stipitati, p. s. 56 ∗ 32, toti 120 lgi.; sporidia elliptico-ovata, utrinque attenuata, inæquilateralia, 31 ∗ 17, continua, umbrino-fusca.

9. **MELANOSPORA** Cda Icon. F. I. 24. Perithecia simplicia, mollia, diaphana, ostiolo subulato-rostrato, apice sæpe penicillato – Asci octospori. Sporidia ellipsoidea, continua, fusca.

M. chionea (Fr.) Cda Icon. I. 25. Ad folia Pini sylvestris putrida – Asci clavati, p. s. 45–46 ∗ 16–18; sporidia ellipsoidea, obtusa, fusca, 12 ∗ 7–9.

M. lagenaria (Pers.) Fckl. Symb. 126. In hymenio Polypori adusti et igniarii vetusto – Asci clavati, p. s. 35–40 ∗ 12–14; sporidia limoniiformia, fuscidula, 11–12 ∗ 6, octona ex Karst., quaterna ex DNtrs.

Spermogonium: *Sphæria pilifera *capillata* Fr. sec. Karst. Fenn. II. 220.

M. caprina (Fr.) Sacc. Ceratostoma caprinum Fr., Cooke Hndb. 925. In quisquiliis in Anglia, Dania – Asci clavati; sporidia ellipsoidea, continua.

M. Zobelii (Cda) Fckl. Symb. 127. In Pezizis vivis et Tuberibus in Germania et Anglia – Asci crassi; sporidia ellipsoidea v. subfusoidea, 26 ∗ 14, subinæquilateralia, fusca.

M. vervecina (Dmz.) Bk., Fckl. Symb. 127. In ramulis putridis variis in Gallia, Germania – Asci oblongi; sporidia ovato-ellipsoidea, 1–2–guttata, 20 ∗ 12, fusca.

M. leucotricha Cda Ic. I. 25. In foliis et ligno Coryli in Germania – Asci cylindracei; sporidia ovato-ellipsoidea limoniiformia, 24 ∗ 14, multi-guttulata, fusca.

M. arachnophila Fckl. Symb. 127. In Araneis emortuis in Germania – Asci cylindracei; sporidia globosa, 1–guttulata, hyalina (semper?)

M. Coemansii West. in Bull. Act. Belg. 1857 p. 579. In Belgio.

M. Zamiæ Cda Icon. I. 24. In foliis putr. Zamiæ pungentis Reichenberg – Asci diffluentes; sporidia limoniiformia, fusca.

M. vitrea (Cda) Sacc. Sphæronema vitreum Cda Ic. I. 25. Ceratostoma vitreum Fr. Summa. 396 – In tuberibus Georginæ in Germania – Asci diffluentes. Sporidia ovalia pallide flava, 12 lga.

M. arenaria Mtgn. in Ann. Scienc. nat. 1856, XXV. Ad rupes arenarias Bernæ – Asci clavati deliquescentes; sporidia ventricosa, limoniiformia, 20 ∗ 10, 1–guttata.

M. Helvellæ (Cooke) Sacc. Ceratostoma Helvellæ Cooke Grevill. I. 175. In hymenio Pezizæ hemisphæricæ in Anglia – Asci clavati, mox diffluentes; sporidia limoniiformia, brunnea, levia, 22–25 lga.

M. parasitica Tul. Carp. III. f. 11–14. In corpore putri Melolonthæ vulgaris in Gallia – Asci clavati stipitati; sporidia oblonga, obtusa, 1–guttata, fusca.

++ **Asci polyspori.**

10. **SCOPINELLA** Lév. in Dict. univ. II. N. 126. Perithecia Melanosporæ. Asci polyspori. Sporidia minuta subcuboidea.

S. barbata (Pers.) Lév. l. c. Melanospora barbata (Pers.) Dur. & Mtgn. Alger. I. 549. In foliis putrescentibus quercinis in Europa et Algeria.

Sect. 3. **Didymosporæ** Sacc.

Sporidia didyma, hyalina v. dilute colorata.

+ **Perithecia stromate proprio destituta v. in eo non immersa.**

* **Perithecia matrice immersa.**

a. **Perithecia bysso nullo complexa.**

11. **PASSERINULA** Sacc. in Grevillea IV. 21. Perithecia bysso nullo complexa, pallida, ceracea, Pyrenomycetibus majoribus (e. g. *Valsaria, Thyridio*) parasitice immersa, ostiolis longicollibus, exertis – Asci 8–spori, copiose paraphysati. Sporidia ovoidea, 1–septata, pallide olivaceo-fuliginea.

P. candida Sacc. F. Ven. ser. IV. 22. F. ital. t. 4. In stromatibus Pyrenomycetum majorum in Italia – Asci clavati, p. s. 70 × 12; sporidia 1–septata, 2–4–guttata, 16–18 × 7–8, fuscidula.

b. **Perithecia bysso connexa.**

12. **HYPOMYCES** Fr. (ut subg.) Summa 382, Tul. Perithecia stromate byssino, effuso connexa, Hymenomycetibus v. Discomycetibus plerumque parasitice immersa, læticoloria, ostiolis abbreviatis – Asci typice 8–spori, aparaphysati. Sporidia oblonga, typice 1–septata, hyalina.

H. torminosus (Mtgn.) Tul. Carp. III. 40. Nectria torminosa Mtgn. Syll. 225. Ad Lactarium torminosum in Algeria et Gallia – Asci cylindrici; sporidia oblonga 1–septata.

H. Linkii Tul. Carp. III. 44. In Agarico putri in Gallia et Germania. St. ascoph. ignotus.

Conid. et chlamydosp.: *Mycogone rosea* Lk.

H. cervinus Tul. Carp. III. 51. In Helvella crispa, Pezizisque in Gallia et Germania. St. ascoph. ignotus.
Conid. et chlamydosp.: *Mycogone cervina* Ditm.

H. chrysospermus Tul. Carp. III. 49. In Boletis putrescentibus – Asci cylindracei 120–150 ⁎ 9; sporidia elongata, utrinque subapiculata, spurie 1–septata, 21–25 ⁎ 6.
St. conid. et chlamydosp.: *Sepedonium mycophilum* Nees. (Tul.)

H. aureo-nites Tul. Carp. III. 64. In hymenio Merulii tremollosi Pers. in Gallia – Asci lineares; sporidia ovato-oblonga, 1–septata, leniter constricta, 10–13 ⁎ 3 ½.

H. asterophorus Tul. Carp. III. 54. In Agarico adusto et Nyctali in Europa et Amer. – Asci late ovati; sporidia fusoidea, utrinque mucronata, 1–septata, 25–35 ⁎ 6, lutescentes.
St. macro- et microcon.: *Asterophora agaricicola* Cda.

H. Pezizæ Tul. Carp. 52. In Peziza hemisphærica in Gallia, Germania.
St. micro- et macrocon.: *Stephanoma strigosum* Wallr. et *Asterophora Pezizæ* Cda.

H. lateritius (Fr.) Tul. Carp. 62. In lamellis Lactarii deliciosi et torminosi in Eur. & Amer. – Asci cylindracei p. s. 110 ⁎ 6–7; sporidia elongata, 1–septata, luteola, 18–20 ⁎ 4–4 ½.

H. rosellus (A. S.) Tul. In acubus, fungis putrescentibus &c. in Eur. et Am. – Asci cylindraceo-clavati. Sporidia fusoidea, medio constricto–1–septata, 23–32 ⁎ 5–7, (rarius 3–sept. sec. Karst.)
St. conid. *Trichothecium candidum* Wallr.

H. roseus (Pers.) Fckl. Symb. 182. *Sphæria rosea* Pers. – Hypocrea rosea Ces. DNtrs. In cortice terra obducto Alni glutinosæ. Sporidia fusoidea, obliqua, 1–septata, 37 ⁎ 7, hyalina.
St. conid. ? *Botrytis carnea* Schum.

H. aurantius (Pers.) Fckl. Symb. 183. In Polyporis variis putridis in Eur. et Amer. Sporidia fusoidea, utrinque apiculata, curvula, 1–septata, 18–24 ⁎ 6, hyalina.

St. conid, notus.

H. violaceus (Schmidt) Tul. Ann. Sc. nat. s. IV. t. XIII. p. 14 (1860). In Æthalio septico – Asci lineares, 58 ∗ 4; sporidia ovato-oblonga, 1–septata (Tul.), 6 ∗ 3. Sporidia continua sec. Fckl. et Karst.

H. fulgens (Fr.) Karst. Fenn. II. 207. In cortice Pini sylvestris in Fennia et Scandinavia – Asci cylindracei, 110–135 ∗ 6; sporidia elongata, 15–21 ∗ 4 1/2, 1–septata, (rarius spurie 3–septata) hyalina.

H. bombacinus Karst. Fenn. II. 210. In Polyporo trabeo in Fennia. Tantum hucusque mycelium conidiophorum observatum: *Institale bombacina* Fr.

H. viridis (A. S.) Karst. Fenn. II. 211. In hymenio Lactariorum – Asci cylindracei p. s. 160 ∗ 7–8; sporidia elongata, obsolete 1–septata, 30–36 ∗ 5–6, luteola.

H. Melanostigma Tul. in Ann. Sc. nat. ser IV. t. XIII. p. 17. H. asterophoro affinis ex Tul.

H. fusisporus Tul. Carp. III. 56. In Russula adusta in Gallia – Asci obovati breves; sporidia, quaterna obovato-fusiformia, 50 ∗ 10, deorsum breve cuspidata.

H. decipiens Tul Carp. III. 61. In Agarico melleo in Gallia. Macro- et microconidia tantum nota.

H. Baryanus Tul. Carp. III. 59. In Nyctali parasitica in Gallia. Macroconidia tantum nota.

H. ochraceus (Pers.) Tul. Carp. III. 41. Cfr. Cooke Hndb. 777. In fungis putridis in Eur. et Amer. Sporidia oblongo-fusoidea, 35 ∗ 6 1/2, 1–septata, utrinque acuta; asci cylindracei, 250 ∗ 6 1/2.

St. conid. *Verticillium agaricinum* Cda.

H. luteo-virens (Fr.) Tul. Carp. III. 57. In Boletis putrescentibus in Eur. et Amer. – Asci cylindracei; sporidia fusoidea 20–25 lga, curvula, 2–septata, hyalina. Macroconidia nota sec. Curr. et Tul.

H. Broomeanus Tul. Carp. III. 108. In Polyporo annoso in Anglia – Asci lineares 130–140 ∗ 3 1/2; sporidia lanceolata, 1–septata, 12–15 lga. 3 1/2 cr. Conidia nota.

H. tomentosus Fr. (ubi?) Grev. IV. 15. In Agaricis in America boreali. Nucleus indescriptus.

Obs. In codicibus Friesianis hanc speciem reperire non contigit.

H. pæonius B. & Br. Ceyl. F. n. 1000. In Polyporis in Ceylon – Asci clavati; sporidia oblongo-cymbiformia, 1–septata, 30 lga. Conidia adsunt.

H. chrysostomus B. & Br. F. Ceyl. n. 1001. In Ceylon – Asci lineares 86 lgi; sporidia curvula 10–13 lga.

H. chromaticus B. & Br. F. Ceyl. n. 1002. In Stereo putri in Ceylon – Asci lineares; sporidia subcymbiformia 1–septata, 15 ≈ 5.

H. Tegillum B. & C. (Grev. IV. 15). In Pino in America boreali – Nucleus indescriptus.

H. stilbiger B. & Br. F. Ceyl. n. 1003. Parasiticus in Trichiis in Ceylon – Asci elongati, apice subcapitati; sporidia fusiformia, multiseptata 15 lga. Conidia nota. – An genuina Hypomycetis species?

H. albus Cr. Finist. 39. In Peziza virginea ad truncos quercinos in Gallia – Status gemmifer tantum notus ex Cr.

H. Lactifluorum (Schw.) Tul. Carp. III. 63. Sphæria Lact. Schw. Carol. n. 34, p. 30. Fr. Syst. Mycol. II. 338. In Lactariis, præsertim piperato in Carolina. Sporidia oblongo-lanceolata 25–35 ≈ 6–5, verruculosa, 1–septata.

H. agaricola (Chaill. Fr.) Sphæria agar. Chaill. in Fr. Syst. mycol. II. 339. In Agaricis vetustis Helvetiæ. Nucleus indescriptus.

H. miliarius Tul. Carp. III. 43. In Russulis in Gallia. Tantum stat. sclerot. et conid. noti.

H. tuberosus Tul. carp. III. 58. In stipite lamellisque Lactacii acris in Gallia. Tantum st. sclerot. et macroconid. noti.

H. chlorinus Tul. Carp. III. 59. In Boleto cyanescente, scabro &c. in Gallia. Macro- et microconidia tantum cognita.

H. hyalinus (Schw.) Sphæria hyalina Schw. Carol. n. 35 p. 30, Fr. Syst. mycol. II. 339 Curr. C. Sph. p. 267. In Russula fætida in Carolina – Asci cylindracei, octospori; sporidia elliptico-fusoidea, 15–20 lga. chlorino-hyalina.

H. Cesatii (Mtgn.) Tul. Carp. III. 40. Nectria Cesatii Mtgn. VIII. Cent. n. 68 pag. 66, DNtrs Sfer. ital. t. II. f. 5. Inter muscos, in residuis, ut videtur cujusdam Polypori parasitans, *a Locarno*, Aprili 1857 (Cesati). Byssisedus; perithecia gregaria, minima, $^1/_2$–$^1/_4$, ovoidea aurantio-rubra, e subiculo fulvo pallescente emergentia – Asci elongati toruloso-moniliati, 100 ✶ 10; sporidia octona uniseriata, oblonga, utrinque cuspidata, 2–4–(?) locularia, medio constricta, hyalina, 15 ✶ 6 $^1/_2$, cuspidibus 8 lgs. (Mtgn.) In icone DNtrs l. c. sporidia exacte bilocularia delineata sunt.

** **Perithecia in matrice v. stromate subsuperficialia.**
A **Perithecii contextus ruber v. flavicans.**
§ **Asci octospori** (in *N. pityrode* Mtgn. 4-spori).

13. **NECTRIA** Fr. Summa Scand. 387. Perithecia erumpenti-superficialia, v. superficialia, cæspitosa v. discreta, sæpe stromate pulvinato, primitus conidiophoro insidentia, rosea v. læte colorata. Asci cylindracei v. fusoidei, initio infra apicem coarctati. Sporidia ellipsoidea v. oblonga, 1-septata, hyalina, loculis typice non secedentibus. St. conidioph.: *Tubercularia, Illosporium* &c. – Sacc. Gen. Pyr. n. 100.

N. discophora Mtgn. Syll. 224. Ad cortices arborum in sylvis Chilensibus, in cortice Alni in Germania – Asci difiluentes; sporidia oblonga, medio septata, 20 ✶ 5.

N. pityrodes Mtgn. Syll. 224. Ad cortices ramorum in Cuba – Asci clavati, tetraspori; sporidia oblonga, medio 1-septata.

N. pithyrodes Mtgn. ***saccharina** B. & Br. Ceyl. F. n. 1027. In corticibus Ceylon. Sporidia cymbiformia 1-septata, 25–40 lga.

N. australis Mtgn. Syll. 225. Ad cortices in Chili – Byssiseda; asci cylindrici; sporidia lanceolata, uni-septata.

N. punicea (Kze & Schm.) Fr. Summa 387. In ramis Frangulæ – Asci cylindracei. Sporidia fusoidea, 1-septata, non constricta, 16 ✶ 5 (Fckl.)

Obs. Sec. Kx Fl. I. 320 sporidia ovoidea continua essent, quæ Nectriellæ speciem designarent.

N. charticola Fckl. Symb. 176 sub *Nectriella.* In charta putrescente in Germania – Asci clavato-oblongi, stipitati; sporidia oblonga, didyma, 17 ∗ 7, hyalina.

N. paludosa Fckl. Symb. 176 sub *Nectriella.* In foliis aqua immersis Typhæ in Germania – Asci oblongi 72 ∗ 8; sporidia, oblonga, 1–septata (?), 13 ∗ 6, 2–guttata, hyalina.

N. lichenicola (Ces.) Sacc. Nectriella carnea Fckl. Symb. 176. Cryptodiscus lichenicola Ces. in Kl. Herb. myc. II. 523 (teste ipso Fckl.). In thallo Peltigeræ caninæ – Asci 56 ∗ 8. Sporidia 1–septata, ovato-oblonga 12 ∗ 4.

Conid: *Illosporium carneum* Fr. – Huc *Nectria Robergei* Dmz. sec. Tul. Karst., sed. vix.

N. Fuckelii Sacc. Nectriella coccinea Fckl. Symb. 177. In thallo Hageniæ ciliaris – Asci 56 ∗ 10; sporidia ellipsoideo-oblonga, 1–septata, 26 ∗ 5, hyalina.

Conid.: *Illosporium coccineum* Fr.

N. erythrinella (Nyl.) Tul. Carp. III. 95. In thallo Peltigeræ caninæ – Asci cylindraceo-ovati, 90–110 ∗ 12–15; sporidia fusoidea, 1–septata, 18–25 ∗ 6–8. Huc *Nectriella Kalchbrenneri* Fckl. Symb. 177 sec. Karst. Sec. Tul. vix differt a *N. lichenicola* (Ces.)

N. chlorella (Fr.) Tul. Carp. III. 172. Conangium chlorellum Fr. Elench. II. 21. In cortice Abietis pectinatæ in Gallia – Asci octospori; sporidia breve ovato-oblonga, mutica, 1–septata, 10–13 ∗ 4–5, hyalina.

N. cinnabarina (Tode) Fr. Summa 388. In ramis arborum variarum totius orbis – Asci 60 ∗ 8; sporidia oblonga v. subfosoidea, 1–septata, 16 ∗ 5, hyalina.

St. conid.: *Tubercularia vulgaris* &c.

N. cinnabarina (Tode) Fr. ***N. Tiliæ** Karst. Symb. ad Myc. Fenn. VI. 239. In ramis Tiliæ parvifoliæ – Sporidia elongata, curvula, 18–26 ∗ 4–5 1/2, 1–septata.

N. Desmazierii DNtrs. Sfer. ital. Cent. I. n. 4. N. coccinea v. cicatricum Dmz. N. cicatricum Tul. Carp. III. 77. In ramis Buxi sempervirentis – Asci cy-

lindracei 72 ✶ 8; sporidia ovato-oblonga, 1–septata, 11 ✶ 5.

St. conidic: *Tubercularia versicolor* Sacc.? et *Discellæ* spec. Tul. l. c.

N. sinopica Fr. Summa 388. In sarmentis Hederæ Helicis – Asci cylindracei; sporidia ovato-oblonga, 1–septata, 12 ✶ 5, hyalina.

St. conid.: *Tubercularia sarmentorum* Fr. p. p. – Sperm.: *Sphæronema Hederæ* Fckl.

N. Cucurbitula Fckl. Symb. 180. Kunze F. select. n. 105 (nec. Fr., nec Awd.) In ramis Pini Germ. – Asci cylindracei, octospori; sporidia ovato-oblonga, 1–septata, 12 ✶ 6.

Obs. Sec. Tul. Carp. III. 86. Chilonectria Cucurbitula jam descripta est forma altera hujus speciei; ceterum et externa facie bene recedunt.

N. Aquifolii (Fr.) Berk. Cooke Hndb. 782. In ramis Ilicis Aquifolii – Asci cylindracei, octospori; sporidia ellipsoidea, spurie 1–septata, 12–13 lga, hyalina. Pycnidia nota sec. Crouan.

N. lecanodes Ces. in Rbh. II. myc. II. 525. In thallo Peltigeræ caninæ – Asci cylindraceo-oblongi 62 ✶ 8; sporidia ovato-oblonga, 1–septata, (v. obscure 4–partita, Tul.) 14 ✶ 5. Huc sec Tul. Carp. III. 94 spectaret *N. Peziza minor* Dmz. Not. 1856 n. 371.

N. Peziza (Tode) Fr. Summa 388. In ligno putri Asiæ, Eur., Amer. – Asci cylindraceo-clavati, 84 ✶ 8; sporidia ovata, 1–septata, 12 ✶ 6, 2–guttata, hyalina. Pycnidia nota sec. Crouan.

N. Peziza (Tode) Fr. ***minor** Dmz. XXIV. Not. p. 18. In thallo Peltigeræ caninæ in Gallia – Asci 60 lgi; sporidia ellipsoidea 10 lga, 4–guttulata. Certe diversa a *N. lichenicola* (Ces.). An eadem ac *N. lecanodes* (Ces.)?

N. fimicola Fckl. Symb. 179. In fimo vaccino putri – Asci cylindracei 80 ✶ 8; sporidia ovato-didyma, 8 ✶ 5, pallide flava.

N. cosmariospora Ces. & DNtrs. Schema 195. Cosmariospora coccinea Rbh. In Polyporo ferrugineo putri, in Italia, Gallia, Germania – Asci 80 ✶ 16; sporidia

ellipsoidea, 1-septata, medio parum constricta, episporio verrucoso, fuscescente, 13–16 ≈ 10.

N. ditissima Tul. Carp. III. 73. N. coccinea Plur. In cortice Fagi sylvaticæ in Gallia, Italia, Germania – Asci cylindraceo-clavati, 82 ✶ 8; sporidia ovato-oblonga, 1-septata, 14 ✶ 6, hyalina.

Conid.: *Tubercularia crassostipitata* Fckl. Symb. 180.. *T. minor* (?) Tul.

N. Coryli Fckl. Symb. 180. In ramis corticatis Coryli Avellanæ – Asci clavati; sporidia oblongo-ellipsoidea, didyma, utrinque apiculata, minuta.

N. citrina Fr. Summa 388. Fckl. Symb. 180. In ligno Alni glutinosæ – Asci cylindracei; sporidia oblonga, 1-septata, 2-guttulata, hyalina, 12–14 ✶ 4 $^1/_2$–6. *N. Citrum* Wallr. sec. Mtgn. diversam speciem sistit.

N. coccinea (Pers.) Fr. Summa 388 (?) Fckl. Symb. 180. In cortice Ulmi, Laricis &c. in Asia, Eur. et Am. – Asci cylindracei 90–100 ✶ 7–8; sporidia ovata, 1-septata, hyalina 12–14 ✶ 5–6.

N. applanata Fckl. Symb. App. I. 22. In ramis corticatis Carpini Betuli – Asci cylindracei 58 ✶ 5; sporidia ovata, didyma, utrinque subtilissime apiculata, 8 ✶ 4, hyalina. Adest status pycnidicus.

N. turbinata Fckl. Symb. App. I. 22. In Helminthosporio parasitica – Asci oblongi 56 ✶ 8; sporidia inæqualiter didyma, 2-guttulata, 12 ✶ 5, fusca.

N. mammoidea Plowr. Br. Fung. in Grevill. vol. III. p. 126. In trunco Ulicis in Anglia – Asci . . . . Sporidia ovoideo-oblonga, 1-septata, 25 ✶ 10.

·**N. oropensis** Ces. in Bot. Zeit. 1857 p. 406. In Italia boreali, in thallo Lichenum.

N. episphæria (Tode) Fr. Summa 388. In pyrenomycetibus parasitica – Asci cylindracei 64 ✶ 6; sporidia ovato-oblonga, 8 ✶ 4–5, 1-septata, hyalina.

N. sanguinea (Sibth.) Fr. Summa 388. In lignis putrescentibus Eur., As. et Amer. A *N. episphæria* peritheciis non v. vix collabescentibus diversa.

N. sanguinea (Sibth.) Fr. ***N. laurina** Sacc. Michelia I. 51. In ramis Lauri nobilis in Italia – Asci cylin-

dracei 40 ✶ 5; sporidia oblonga, curvula, 14 ✶ 3–3 1/2, tenuiter 1–septata, non constricta, hyalina,

N. variicolor Fckl. Symb. 181. In ligno putri Salicis triandræ – Asci cylindracei 82 ✶ 7; sporidia ovata, 1-septata, 8 ✶ 5, hyalina.

N. Daldiniana DNtrs. Sfer. ital. n. 7. In ramis Sarothamni scoparii in Italia et Germania. Sporidia oblonga, constricto–1–septata.

N. Daldiniana *granulosa Cr. Finist. 38 (N. Peziza Bk. non Tode) in ramulis Genistæ et Spartii in Gallia.

N. læticolor B. & C. Cub. F. n. 765. In truncis cum Hepaticis in Cuba – Asci . . . .; sporidia ellipsoidea, 1–septata, 13–15 lga.

N. saccharina B. & C. Cub. F. n. 766. In ramis putrescentibus Coffeæ in Cuba – Asci . . .; sporidia subfusoidea, demum 1–septata, 10–12 1/2 lga.

N. subiculosa B. & C. Cub. F. n. 770. In Polyporis putridis in Cuba – Asci. . . .; sporidia oblonga, angusta, 1–septata 15 ✶ 5. Affinis *N. aureæ* Grev. t. 47, sed in hac sporidia multo crassiora.

N. macrostoma B. & C. Cub. F. n. 771. In corticibus putridis in Cuba – Asci . . . .; sporidia subellipsoidea, 1–septata, 10 lga.

N. suffulta B. & C. Cub. F. n. 773. F. Ceyl. n. 1020. In Palmarum petiolis in Cuba et Ceylon – Asci . . .; sporidia oblongo-ellipsoidea, demum 1–septata, 10–13 1/2 lga, 7 1/2 cr.

N. foliicola B. & C. Cub. F. n. 776. In foliis Musæ (?) in Cuba – Asci oblongi; sporidia disticha, fusoidea, 1-septata, 25 ✶ 4.

N. ossicola Cr. Finist. 38. In ossibus caninis in Gallia – Asci cylindracei dehiscentes; sporidia ovoidea, 1–septata, 2–guttulata. Adest status conidiophorus.

N. Heraclei Cr. Finist. 38. In caule emortuo Heraclei Sphondylii in Gallia – Asci clavati; sporidia oblonga, 1–septata, eguttulata.

N. terrestris Cr. Finist. 38. In muris in Gallia – Asci fusoidei; sporidia oblonga, granulosa, 1–septata, leniter constricta.

N. hæmatococca B. & Br. F. Ceyl. n. 1018. In corticibus in Ceylon – Asci . . .; sporidia 1–septata, 12 $^1/_2$ –15 lga.

N. fuliginosa B. & Br. F. Ceyl. n. 1019. In Ceylon – Asci . . . .; sporidia « metulæformia » 1–septata, 15–17 lga.

N. Ralfsii B. & Br. Cooke Hndb. 783. In ramis Ulicis, Genistæ et Fagi – Asci clavati; sporidia oblonga, 1–septata, 15–25 lga, 2–4–nucleata, hyalina.

N. Albertini B. & Br. Cooke Hndb. 784. In foliis, ramentis &c. Sporidia fusoidea, leniter constricta, 1–septata, 25–30 lga, subhyalina. Cfr. Curr. Simp. Sphær. p. 314. Ab *Hypomycete rosello* vere diversa videtur.

N. Purtoni (Grev.) Curr. Comp. Sph. p. 282 n. 182. Parasitica in Valsa Abietis in Anglia – Asci cylindraceo-clavati; sporidia oblonga, v. subfusoidea 1–septata.

N. graminicola B. & Br. Cooke Hndb. 787. In Aira cæspitosa in Anglia, Germania – Asci . . .; sporidia fusoidea, 20 ⁎ 6, 1–septata, hyalina.

N. Ribis (Tode) Rabh., Oud. F. Neerl. n. 168. Sacc. Michel. II. 276. In ramis Ribis rubri &c. – Asci clavati 90 ⁎ 15; sporidia fusoidea, 20 ⁎ 6, 1–septata, non constricta.

N. squamuligera Sacc. F. Ven. ser. IV. p. 22. F. ital. tab. 155. In ramis Salicis et Robiniæ in Italia – Asci cylindracei, 80 ⁎ 5; sporidia 1–sticha, oblonga, 15 –16 ⁎ 4 $^1/_2$–5, hyalina. Stat. conidiophorus: *Tubercularia pusilla* Sacc.

N. aglæothele B. & C. (Grev. IV. 45) In Alno in America boreali – Asci lineares; sporidia ellipsoidea, 1-septata, 12–14 lga.

N. Russellii B. & C. (Grev. IV. 45) In Ulmo, in America bor. – Asci . . . .; sporidia cymbiformia, 1–septata, 15–20 lga.

N. viticola B. & C. (Grev. IV. 45) Pirotta F. viticol. p. 45. In cortice vivo Vitis vinif. in Ital. et Amer. bor. – Asci cylindracei 56–85 ⁎ 10: sporidia elliptica, 1–septata, 12 –15 ⁎ 4–5.

N. diploa B. & C. Journ. Linn. Soc. X. 378. Cub. F. n. 767. In corticibus in Cuba. – Sporidia biseriata, fusiformia, 2–4–nucleata, 25–30 ✶ 8 $^1/_2$. An Calonectria?

N. diploa *diminuta B. & C. (Grev. IV. 46) In Sphæriis parasitica in America boreali – Asci fusoidei, obtusi; sporidia breve fusoidea, binucleata, 1–septata, 25–26 lga.

N. Peponum B. & C. (Grev. IV. 16) In Cucurbita putresc. in Amer. boreal. – Asci . . . .; sporidia oblonga 1–septata – Var. **aurelia** l. c., sporidiis continuis, forte est status infans.

N. dispersa Cooke & Ellis in Grev. 1876 p. 33. In corticibus New Iersey – Asci cylindracei; sporidia ellipsoidea, utrinque attenuata, 1–septata, 25 ✶ 10. Adsunt conidia.

N. gyrosa B. & Br. Fung. Ceyl. suppl. p. 86. In Ceylon – Asci clavati; sporidia elliptica, 1–septata.

N. flavo-lanata B. & Br. F. Ceyl. n. 1008. In corticibus in Ceylon – Asci clavati; sporidia oblonga, 1–septata, 12–15 ✶ 4 $^1/_2$. Conidia adsunt.

N. bactridioides B. & Br. F. Ceyl. 1010. In Ceylon – Asci . . . .; sporidia «metulæformia» 1–septata, 12 $^1/_2$ ✶ 6 $^1/_2$.

N. stenospora B. & Br. F. Ceyl. n. 1011. In caulibus putridis in Ceylon – Asci. . .; sporidia angusta, 1–septata, 10–12 $^1/_2$ ✶ 3–3 $^3/_4$.

N. Pezicula Speg. in Michelia II. 232. In charta stercorata in Italia – Asci cylindracei, 55–65 ✶ 7–8 $^1/_2$; sporidia oblonga, 1–septata, 12–14 ✶ 3 $^1/_2$–4, 4–guttulata, hyalina.

N. Mantuana Sacc. F. ital. tab. 156, Michelia I. 52. In ligno Populi in Italia – Asci cylindraceo-clavati 80–90 ✶ 7; sporidia oblonga, constricto–1–septata, 12 ✶ 3 $^1/_2$ –4, 4–guttulata, hyalina.

N. indigens (Arnold) Rehm Asc. n. 85. Secoliga indigens Arn. in Flora 1870 p. 121. In saxis calcareis in Tyroliæ alpibus – Asci cylindraceo-clavati, 80–90 ✶ 12–13, 4–6–8–spori, initio apice attenuati; sporidia ellipsoidea, v. subovoidea, 12–15 ✶ 8, monosticha v. subdisticha, plasmate bipartito, simulateque 1–septata, hyalina.

N. Magnusiana Rehm Ascom. n. 436. Parasitica in

Diatrypella favacea ad ramos Betulæ in horto Berolinensi – Asci cylindrici, 110 ✳ 8, sub apice initio contracti, paraphysibus (genuinis?) copiosis asco longioribus, filiformibus obvallati, 8–spori; sporidia monosticha, ovato-ellipsoidea, 13–15 ✳ 7, initio 2–nucleata granulosave, tandem 1–septata, non v. vix constricta, dilutissime hyalino-rosea. Perithecia coacervata, mox collabascendo umbilicata, rufo-nigricantia; contextu parenchymatico rufo-sanguineo.

N. chrysites (Wallr.) Rabh. Herb. mycol. ed. II. n. 632. In ramis Ulmi campestris in Germania – Asci diffluentes. Sporidia oblongo-ovata, 18–20 ✳ 5–6, initio 2–nucleata, denique constricto–1–septata, utrinque obtusiuscula, quandoque inæquilateralia, hyalina. Perithecia gregaria, v. subcæspitulosa, dein cupuliformia, lutea; contextu parenchymatico vivide sulphureo. A N. chrysite West. & Crouan diversa. Cfr. *Nectriellas.*

N. thujana Rehm. Asc. n. 338. In foliis emortuis Cupressi thyoidis (white Cedar), cum Pithya cupressina, in America boreali. – Perithecia sparsa, minutissima, globulosa, sanguinea; asci clavati breve stipitati, 90 ✳ 12–15, aparaphysati, 8–spori; sporidia disticha, ex ovoideo breve fusoidea, constricto–1–septata, 2–nucleata, hyalina, senio dilutissime fuscella.

N. bicolor B. & Br. Ceyl. F. n. 1025. In corticibus Ceylon – Asci...; sporidia oblongo-ellipsoidea, 1–septata, 8 ✳ 2 $^{1}/_{2}$.

N. subquaternata B. & Br. Ceyl. F. n. 1026. In corticibus Ceylon – Asci . . .; sporidia submetulæformia, oblonga, 1–septata, 12 $^{1}/_{2}$ lga.

N. Stilbosporæ Tul. Carp. III. 71 t. XI. f. 11-19. Ad ramulos Carpini Betuli in Melanconide macrosperma ejusque acervulis conidiophoris in Gallia – Asci lineares 70–100 ✳ 10–13; sporidia monosticha, ovata, 1–septata, recta 10–13 ✳ 6 $^{1}/_{2}$–10, hyalina. St. conid. *Tuberculariam* sistens.

N. Pandani Tul. Carp. III. 71. In Melanconio Pandani Lév. – Asci obovato-lineares, 80 ✳ 6; sporidia monosticha, breve lanceolata, recta, 10 ✳ 4, 2–(4 ?) locularia.

N. Selenosporii Tul. Carp. III. 72. *N. coccinea* Dmz.

non ·dior. In ramis corticatis Ficus in Gallia – Asci clavati; sporidia oblique monosticha, ovato-oblonga, 1-septata, forma et magnitudine Nectriæ Pezizæ. St. conid. *Selenosporium Urticearum* Cda f. *Fici* Dmz. et *Fusarium lateritium* f. *Mori* Dmz.

N. armeniaca Tul. Carp. III. 75, t. X. f. 1–12. In cortice Fagi sylvaticæ in Gallia – Asci cylindrici 100 ⨯ 8, obtusi; sporidia monosticha, ovata, obtusa 1–septata, 13 ⨯ 6 $^1/_2$, hyalina. St. conidiophorus *Prosthemium stellare* Riess. imitatur.

N. aurantiicola B. & Br. F. Ceyl. n. 1028. In ramis Citri Aurantii in Ceylan. – Asci clavati; sporidia ellipsoidea, 1–septata, 15 ⨯ 7 $^1/_2$. Adsunt stylosporæ.

N. dealbata B. & Br. F. Ceyl. n. 1029. In corticibus in Ceylon – Asci lineares; sporidia oblongo-ellipsoidea, 1–septata 12–13 ⨯ 5–6.

N. Bogosarum Pass. in N. Giorn. bot. it. 1875 p. 189. In cortice Acaciæ in Abyssinia – Asci longi cylindrici; sporidia ellipsoidea, apicibus subacutis, 1–septata, 5 ⨯ 2–2 $^1/_2$.

N. abscondita Sacc. Myc. Ven. 123, t. XII. f. 42–45. In ramis corticatis Ulmi camp. in Italia – Asci cylindracei, 50 ⨯ 8; sporidia globoso-ovata, 1–septata, 9 ⨯ 6–7, 2–guttulata, e roseo hyalina.

N. bryophila (Rob. & Dmz.) Sacc. Sphæria bryophila Rob. in Dmz. XIX. Not. p. 10. Ad muscos in Gallia – Asci cylindrici 75 ⨯ 10; sporidia ellipsoidea, 2–nucleata, 20-25 lga.

B **Aponectria:** sporidia appendiculata (intermixtis ascis spermatiophoris?)

N. inaurata B. et Br. Cooke Hndb. 783. In ramis Ilicis Aquifolii – Asci cylindracei, octospori; sporidia ellipsoidea, 1–septata, 12–15 lga, utrinque appendiculata.

Sec. Berk. adsunt quoque (in eodem perithecio?) asci clavati, majores, polyspori; sporidia curvula, minuta, 3 $^1/_2$ longa, hyalina.

Species incertæ.

N. ochroleuca Schw. Grevill. IV. 16. In Moro multicauli in Amer. boreali.

N. Eugeniæ Curr. Trans. Linn. 1876 p. 130. In foliis emortuis Eugeniæ in Pegu.
Nucleus indescriptus.

N. villigera B. & Br. F. Ceyl. n. 1012. Prob. in fungis putridis in Ceylon.
Nucleus indescriptus – Conidia adsunt.

N. auricoma (Wall.) Mtgn. Plant. cell. VIII. Cent. p. 73. In virgis salicinis in Germania.
Nucleus indescriptus.

N. Resinæ Fr. Summa 388. In ligno Pini sylvestris.
St. spermogonicus tantum notus. Cfr. Fckl. Symb. 179.

N. mobilis (Tod.) Fr. Summa 388 = ? *Sph. umbrina* Bk. *Nectria umbrina* Cooke Hndb. p. 788. In caule Phaseolorum in Anglia, Germania.
Nucleus ignotus.

N. lageniformis B. & C. Cub. F. n. 772. In corticibus putridis in Cuba.
Tantum perithecia et conidia nota.

N. crustulina B. & Rav. (in Grevillea?)
Tantum stat. conidiophorus notus.

N. Aurantium (Wallr., non *Nectr. aurantia* Fr.) Kx. Fl. I. 321. In trunco Populi in Germania et Fraxini in Belgio.
Nucleus indescriptus. – Dmz. in XIX. Not. pag. 12 tribuit *Sphæriæ aurantiæ* sporidia ovoidea, 1–septata, 15 lga, an eadem species?

N. ochracea (Grev.) Fr. Summa 387. In ramis putrescentibus in Anglia, Succia.
Nucleus? Verisimiliter nil nisi *Tubercularia lutescens* Lk. (ex Fr.)

N. decolorans Fr. Scler. Suec. n. 184 (sub Sphæria). In ramis Sueciæ – Sec. DNtrs exemplaria Friesii l. c. præbent sporidia, octona elongato-linearia, curvula. An Ophionectriæ species?

11. **SPHÆROSTILBE** Tul. Carp. III. 103. Perithecia, asci et sporidia Nectriæ, sed perithecia in consortio v. in basi fungilli conidiophori (*Stilbi, Atractii, Microceræ*) oriunda.

S. aurantiaca Tul. Carp. III. 99 t. 14 f. 1–13. In ramulis Fraxini Orni in Gallia – Asci late clavati; sporidia subdisticha, ovato-oblonga, 2-locularia, (raro 4-locularia, Tul.)

St. conid. *Stilbum aurantiacum* Bab.

S. flavo-viridis Fckl. Symb. App. I. 22. In disco Betulæ albæ in Germania – Asci stipitati cylindracei 90 ≈ 8; sporidia oblongo-ovata, didyma, 10 ≈ 6, hyalina.

Conid. *Atractium flavo-viride.*

S. fusca Fckl. Symb. App. I. 23. Ad radices Fagi sylvaticæ in Germania – Asci oblongi, globuloso-stipitati, 80 ≈ 12; sporidia fusoidea, 1–septata, 16–20 ≈ 8, hyalina.

Macroconid. *Fusisporium sanguineum* Fr. St. conid. *Atractium* sistens.

S. cæspitosa Fckl. Symb. App. II. 33. In cortice Ulmi campestris in Germania – Asci oblongo-clavati, 96 ≈ 10; sporidia ovato-fusoidea, 1–septata, 16 ≈ 6, hyalina.

St. conid. *Stilbum* sistens.

S. hyalina Fckl. Symb. App. III. 21. In cortice putri Salicum – Asci subsessiles; sporidia oblongo-ovata, 1-septata, ad septum constricta, hyalina.

St. conid. *Atractium* sistens.

S. sanguinea Fckl. Symb. App. III. 22. In cortice putri Salicum – Asci cylindracei, subsessiles; sporidia didyma, ovato-oblonga, 18 ≈ 9, hyalina.

St. conid. *Atractium* sistens.

S. cinnabarina (Mtgn.) Tul. Carp. III. 103. In truncis variis Eur., Am. bor. et Cuba – Asci clavato-oblongi, 80 ≈ 13–16; sporidia disticha ovato-oblonga, 22–26 ≈ 7, plurinucleata.

St. conid. *Stilbum* (Atractium) *cinnabarinum* Mtgn. referens.

S. gracilipes Tul. Carp. III. 102. In truncis variis Europ., Am. bor. et Cuba – Asci cylindrico-clavati; sporidia monosticha, ovoidea, bilocularia, 2–guttata, 10–15 ≈ 4–5.

St. conid. *Stilbum* referens.

S. coccophila Tul. Carp. III. 105. In truncis variis ad Coccos in Europ. et Amer. boreal. – Asci lineares 60 –80 ≈ 6 $^1/_2$; sporidia oblique monosticha ovata, 10 ≈ 5, 1–septata.

Stat. conid. *Microcera coccophila* Dmz.

S. flammea Tul. Carp. III. 104. In truncis variis præcipue salicinis in Europ. et Amer. boreal. – Asci obovato-oblongi; sporidia ovata obtusa, constricto–1–septata.

St. conid. *Atractium flammeum* Bk.

S. repens B. & Br. F. Ceyl. n. 1005. In ligno Artocarpi integrifoliæ in Ceylan – Asci . . . .; sporidia 1–septata, 20 ≈ 10.

Conidia adsunt.

S. variabilis B. & Br. F. Ceyl. 1006. In corticibus in Ceylan. – Asci lineares; sporidia ellipsoidea, utrinque apiculata, 1–septata, 12–15 ≈ 7 $^1/_2$.

S. Wrightii B. & C. Cub. F. n. 761. In stipitibus putresc. Palmarum in Cuba – Asci. . .; sporidia oblongo-ellipsoïdea, 1–septata, 12 $^1/_2$ ≈ 6 $^1/_2$.

Conidia adsunt.

S. nitida B. & C. Cub. F. n. 762. In caulibus Orchidearum in Cuba.

Nucleus indescriptus.

S. lateritia B. & C. Cub. F. n. 764. In caulibus putrescentibus in Cuba.

Nucleus indescriptus l. c. – St. conid.: ? *Stilbum lateritium* Berk.

Species desciscens.

S. pseudotrichia (Schw.) B. & Br. F. Ceyl. n. 1004, Grevillea IV. 46. In corticibus in Ceylon et Amer. boreal. Asci . . . .; sporidia cellulosa, 25–35 lga.

Conidia et stylosporæ adsunt. An novum genus, an Pleonectriæ species?

§§ **Asci pleiospori.**

15. **METANECTRIA** Sacc. Perithecia Nectriae – Asci cylindraceo-fusoidei, pleiospori. Sporidia oblonga, 1-septata, hyalina.

M. Citrum (Wallr.) Sacc. Sphæria Citrum Wallr. Comp. IV. 788. Nectria Citrum Mtgn. Pl. cellul. VIII. cent. p. 56. Ad truncos Alni in Germania – Asci 80–90 ≈ 15–25; sporidia 10 ≈ 4–5, hyalina.

B **Perithecii contextus cyaneus v. violaceus.**

16. **LISEA** Sacc. Michelia I. 43 in nota. Perithecia superficialia, gregaria, dispersa v. coacervata, globulosa, collabescendo rugulosa; contextu molliusculo, parenchymatico, amœne cyaneo v. violaceo – Asci octospori. Sporidia didyma, subhyalina.

St. conid. *Fusarium* referens.

L. nemorosa Sacc. Michel. I. 42–43 F. ital. tab. 181. In ramulis Cytisi nigricantis in Italia – Asci clavati, 70 ≈ 10–12; sporidia fusoideo-didyma, 14–16 ≈ 6–7, minute 4-guttulata, hyalina.

L. Vitis (Niessl) Sacc. Michel. I. 43. Botryosphæria Vitis Niessl Beitr. 48. In sarmentis Vitis in Germania – Asci . . . .; sporidia oblonga, 14–16 ≈ 4–5, constricto-1-septata.

L. Buxi (Fckl.) Sacc. Gibbera Buxi Fckl. Symb. App. II. p. 32. In ramis Buxi sempervirentis in Germania – Asci cylindracei, 82 ≈ 10; sporidia ovato-oblonga, utrinque obtusiuscula, 1-septata, ad septum leniter constricta, 12 ≈ 6, hyalina.

St. conid. *Fusarium Buxi* Fckl. Symb. 177.

++ **Perithecia stromate proprio immersa.**
a **Sporidiorum articuli secedentes.**

17. **HYPOCREA** Fr. Summa 383 p. p. Stroma carnosum variicolor pulvinatum v. effusum superficiale (rarissime fere obsoletum) – Asci cylindracei. Sporidia octona, bilo-

cularia, hyalina v. olivacea, loculis mox secedentibus, uti sporidia 16 appareant.

St. conidioph. in multis notus.

H. tremelloides (Schum.) Fr. Summa 383. In ligno putri Carpini &c. – Asci cylindrici, 82 ≈ 4–5. Sporidiorum articuli globosi, æquales, 4–5 diam., hyalini.

H. gelatinosa (Tode) Fr. Summa 383. In ligno putrido udo in Germania, Italia &c. – Asci cylindracei, 88 ≈ 4. Sporidiorum articulus superior globosus, 4 diam. inferior ovoideus 3 lat., dilute flavescentes, dein olivaceo-fusci.

H. rufa (Pers.) Fr. Summa 383. In ligno et ramis putrescentibus variis Eur. et Asiæ – Asci cylindracei, 72 ≈ 4; sporidiorum articuli subæquales, globosi, 3–4 diam., hyalini.

Conid. *Trichoderma viride* Pers.

H. rufa *lateritia Sacc. F. Ven. Ser. IV. 24. Ad ramos fagineos in Italia – Asci filiformes, 95–100 ≈ 5; sporidiorum articuli globoso-cuboidei, 4–4 $^1/_2$ diam. 1–guttulati, hyalini.

H. rufa *sublateritia Sacc. F. Ven. Ser. IV. 24. In ramis Buxi semperv. in Italia – Asci lineares 70 ≈ 3–4; sporidiorum articuli globosi, 3 diam., 1–guttulati, hyalini.

H. rigens (Fr.) Sacc. Sph. rigens Fr. Elench. II. 61. Sph. lenta Schw. Carol. n. 28 non Tode (sec. Fr.) H. rufa *umbrina Sacc. F. Ven. ser. IV. 24. In truncis variis in Europ., Asia et Amer. boreal. – Asci lineares 60–80 ≈ 3–3 $^1/_2$; sporidiorum articuli sphæroidei, 3–3 $^1/_4$ diam. (sec. Curr. 5 diam.) 1–guttulati, hyalini.

H. spinulosa Fckl. Symb. 184. In caule putri Chelidonii majoris in Germania et Fennia – Asci cylindracei 76 ≈ 5; sporidiorum articuli inæquales, inferior obovatus 4 lat., superior globosus 5 diam., flavescentes.

H. pulvinata Fckl. Symb. 185. In Polyporo sulphureo putri in Germania et Helvetia – Asci cylindracei, 70 ≈ 4; sporidiorum articuli globosi, æquales, 4 diam., hyalini.

H. citrina (Pers.) Fr. Summa 185. In terra, muscis, foliis in Europ. et Asia – Asci cylindracei 102 ≈ 6; spo-

ridiorum articuli subinæquales, subglobosi 4–6 diam., hyalini.

N. citrina *fungicola Karst. Fenn. II. 204. In Polyporis vetustis – Asci cylindracei 62–75 ≈ 4–5; sporidiorum articuli globosi, 3–4 diam., hyalini.

H. lactea Fr. Summa 383. In Polyporo Medulla pane putrescente – Asci cylindracei, 56 ≈ 3; sporidiorum articuli subæquales, globosi 3 diam. hyalini.

H. alutacea (Pers.) Ces. & DNtrs Schema 193. Tul. Carp. III. 34. In acubus Pini silvestris et Abietum dejectis in Clavaria Ligula parasitica – Asci cylindracei, 56 ≈ 4; sporidiorum articulus superior globosus 4 diam., inferior subovatus, 4 ≈ 3, hyalini.

H. stipitata (Lib.) Fckl. Symb. App. I. 23. In foliis et ramulis Fagi silvaticæ – Asci lineares, p. s. 68 ≈ 4, stip. 20 lgo; sporidiorum articuli conoidei, hyalini, 5 ≈ 4.

H. atrata Karst. Fenn. II. 207. *H. repanda* Fckl. Symb. App. I. 24. In ligno putri Salicis &c. in Germania et Fennia – Asci cylindracei, 68 ≈ 5; sporidiorum articuli, æquales, globosi 4 diam., hyalini.

H. tuberculariformis Rehm. Ascom. n. 435. In fimo vaccino et in proximis caulibus exsiccatis in Tyroliæ alpibus – Species pulchella. Asci subclavati, teneri, apice incrassati, 56–60 ≈ 6–7, aparaphysati; sporidia 1 $^1/_2$–2-sticha, (immatura?) elongato-ellipsoidea, obtusa, hyalina, bilocularia, non constricta, 7–9 ≈ 3.

H. hypomycella Sacc. n. sp. Stroma (in Corticiorum hymenio) effusum, tenuissimum, subvelutinum ex albo sordide roseolum; perithecia in stromate immersa, gregaria, minutissima, 90–100 micr. diam., globulosa, contextu parenchymatico molliusculo, olivaceo-fuscidulo, ostiolo punctiformi, minutissime denticulato; asci clavato-cylindracei, brevissime obtuse stipitati, 50–60 ≈ 10, octospori, aparaphysati; sporidia oblique monosticha v. disticha didyma, mox in articulos globosos 3 micr. diam., 1-guttulatos, hyalinos secedentia.

Hab. in hymenio Corticii polygonii ad Carpinum *a Selva* (Italia) Apr. 1877.

Obs. Habitus et habitatio potins Hypomycetis, sed characteres Hypocreæ et probabiliter Hypocreæ lacteæ Fr. affinis.

H. armata Fr. Summa 383. Sphæria armata Pers. Myc. Eur. t. I. 1–2. Ad terram udam in Europa – Nucleus?

H. delicatula Tul. Carp III. 33. In truncis abietinis in Gallia et Anglia – Asci anguste lineares 100 ≈ 4; sporidiorum articuli cuboidei, dein sphæroidei, 3 micr. diam.

H. farinosa B. & Br. Cooke Hndb. 776. In ramis putridis et in Stereo in Anglia – Asci filiformes; sporidia in articulos ellipsoideos secedentia.

H. inclusa B. & Br. Cooke Hndb. 776. In Tubere puberulo in Anglia – Asci lineares; sporidia in articulos globosos 3 $^1/_2$–5 diam. secedentia.

H. solenostoma B. & Rav. Cooke Grevill. IV. 14. In Pachymate Coco putr. in Amer. boreal. – Asci. . . .; sporidiorum articuli globosi, 4 micr. diam.

H. parasitans B. & C. Grev. IV. 15. In Hydno Erinaceo in Amer. boreal. – Asci . . . .; sporid. articuli globosi, majores.

H. discella B. & Br. F. Ceyl. n. 984. In ligno putri Ceylon – Asci lineares; sporidiorum articuli minores, 2 $^1/_2$ diam.

H. deplanata B- & Br. F. Ceyl. n. 985. In Ceylon – Asci . . . .; sporidiorum articuli globosi, simulate catenulati, 5 diam.

H. pezizoides B. & Br. F. Ceylon n. 988. In Ceylon – Asci . . . .; sporidiorum articuli globosi, 4 $^1/_2$–6 diam.

H. jecorina B. & Br. F. Ceylon n. 989. In corticibus et lignis in Ceylon – Asci . . . .; sporidiorum articuli globosi 4–5 diam., simulate catenulati.

H. catoptron B. & Br. F. Ceylon n. 990. In lignis et corticibus in Ceylon – Asci . . .; sporidiorum articuli, 4–5 micr. diam.

H. palmicola B. & C. F. Ceyl. n. 994. In foliis Palmarum in Ceylon – Asci . . .; sporidiorum articuli globosi.

H. multiformis B. & Br. F. Ceyl. n. 995. In cortice et ligno putri in Ceylon – Asci . . .; sporidiorum articuli moniliformiter connexi, 3 $^3/_4$ micr. diam.

H. albo-fulva B. & Br. F. Ceyl. n. 996. In ramis Ceylon – Asci . . . .; sporidiorum articuli globosi 5 micr. diam,

H. hæmatoplaca Mtgn. Syll. 210. Ad cortices in Portorico – Asci filiformes; sporidiorum articuli (16) globosi, monostichi.

H. fusca Mtgn. Syll. 210. Ad petiolos Maximilianæ reginæ in Cayenna – Asci clavati, 8spori; sporidia (immatura?) oblonga 1–septata seu 2–nucleolata.

H. larvata Mtgn. Syll. 200 (sub Cordyc.) Ad cortices in Guyana, Kau – Asci filiformes; sporidiorum articuli numerosi (16?) globosi, monostichi.

H. brevipes Mtgn. Syll. 201 (sub Cordyc.) Ad ligna putrida in Cayenna – Asci et sporidia Hypocreæ (Mtgn. l. c.)

H. lætior B. & C. Cub. F. n. 754. In ligno putri in Cuba. Sporidiorum articuli (16), subglobosi, 5 micr. diam. Affinis dicitur *H. cervinæ.*

H. Fibula DNtrs Pir. Sfer. in G. B. ital. II. 50. In truncis arborum in Canariis – Asci cylindracei copiosissimi; sporidiorum articuli globosi, æquales.

H. Schweinizii (Fr.) Sacc. Sph. Schweinizii Fr. Elench. II 60. Sph. lobata Schw. Curr. Comp. Sphær. p. 267. Ad truncos corticatos Amer. boreal. – Asci cylindrici; sporidiorum articuli globoso-cuboidei.

H. Petersii B. & C. (Grevill. IV. 13). In America boreali – Asci lineares; sporidiorum articuli globosi.

H. Richardsonii B. & Mtgn. (Grev. IV. 14). In Populo in Amer. bor. – Asci clavati. Sporidia (articuli?) ellipsoidea.

H. viridi-rufa B. & Rav. (Grev. IV. 14). In Alno serrulata in Amer. bor. – Asci lineares; sporidia (immatura?) oblonga, binucleata.

H. contorta (Schw.) B. & C. (Grev. IV. 14). In truncis variis in Amer. bor.

H. Stereorum (Schw.) B. & C. (Grev. IV. 14). In Polyporo Curtisii B. in Amer. boreali.

H. chlorospora B. & C. (Grev. IV. 14). In montanis New-York – Asci lineares; sporid. articuli viriduli, globosi, 4 1/2 diam.

H. cervina B. & C. Cub. F. n. 753. In ligno putri in Cuba. – Asci . . . .; sporidia octona (?) subglobosa, 3-3 $^1/_2$ diam.
H. insignis B. & C. Cub. F. n. 755. In ligno putri in Cuba – Nucleus immaturus.
H. viridans B. & C. Cub. F. n. 756. In foliis Gesneriæ in Cuba – Asci clavati; sporidia disticha, fusoidea, 14 $^1/_3$ lga.
H. maculiformis B. & C. Cub. F. n. 757. In Polyporo citrino in Cuba – Asci . . . .; sporidia 10 lga.
H. Artocreas B. & Br. F. Ceylon n. 983. In petiolis Palmarum in Ceylon – Nucleus immaturus visus.
H. corticioides B. & Br. F. Ceylon n. 986. In corticibus in Ceylon – Asci . . .; sporidia (immatura?) ellipsoidea, apiculata, 1–septata, 5–6 diam.
H. saccharina B. & C. Journ. Linn. Soc. X. 376. Cub. F. n. 752. In ligno putri in Cuba – Nucleus indescriptus.
H. saccharina B. & C. ***agaricicola** B. & Br. In stipitibus Agaricorum Ceylon – Nucleus immaturus.
H. fusigera B. & B. F. Ceylon n. 993. In foliis Monocotyledonearum in Ceylon – Asci fusoidei; sporid. (immatura?) fusoidea, 1–septata, 7 $^1/_2$ lga.
H. cerebriformis Bk. Austr. F. n. 228. Australia – Asci . . . .; sporidia octona (?) globosa.
H. tuberiformis B. & Rav. (Grev. IV. 13). In culmo Arundinariæ in Am. bor. – Nucleus indescriptus.
H. Ravenelii B. (Grev. IV. 14). In Ostrya et Acere in Am. bor. – Asci clavati; sporidia fusoidea, dein 3–septata, 37–38 lga. An Hypomyces?
H. ochroleuca B. et Rav. (Grev. IV. 14). In Myrica cerifera in Amer. bor. – Nucleus indescriptus.
H. polyporoidea B. & C. (Grev. IV. 15). In Fago in Amer. bor. – Nucleus indescriptus.
H. armeniaca B. & C. (Grevill. IV. 15). In Amer. bor. ad terram – Nucleus indescriptus.
H. subviridis B. & C. (Grev. IV. 15). In foliis putr. Graminum in Amer. bor. – Nucleus indescriptus.

H. variabilis Carr. in Trans. Linn. 1876 p. 130. In Pegu – Nucleus indescriptus.

H. vitalba B. et Br. Cooke Hndb. 775. In Clematide Vitalba in Anglia. Sporidia disticha, fusoidea, appendiculata, 3-septata, 50–60 ✱ 7, hyalina – Asci clavato-cylindracei – Non *Hypocrea*, an novi generis typus, an *Ceriospora* male observata?

H. Pocula (Fr.) Sacc. Sphæria Pocula Fr. Elench. II. 60. Ad truncos ad New-York – Nucleus indescriptus, sed Hypocrea videtur.

H. atrovirens Mtgn. Syll. 209. Ad ligna Rancagua – Nucleus indescriptus.

H. phyllogena Mtgn. Syll. 209. In foliis vivis Coutareæ speciosæ in Cayenna – Asci lineares, polyspori (?); sporidia linearia curvula, hinc medio ventricosa.

H. impressa Mtgn. Syll. 210. Ad cortices ramorum in Cayenna – Asci magni, clavati, 8spori; sporidia oblongo-cymbiformia, 2–nucleata, hyalina.

b. **Sporidiorum articuli non secedentes.**

18. **HYPOCREOPSIS** Karst. Fenn. II. 221–251, non Wint. Stroma tuberoso-carnosum, effusum, lobatum – Asci octospori. Sporidia ellipsoidea 1–septata, loculis non secedentibus.

H. riccioidea (Bolt.) Karst. 221–251. Acrospermum lichenoides Tode Mekl. I. p. 9. Hypocrea parmelioides Mtgn. Syll. 210. In cortice Betulæ in Anglia, Gallia et Fennia – Asci cylindracei 130–160 ✱ 10; sporidia ellipsoidea, obtusa, 1–septata, 16–22 ✱ 8–10.

Sect. 4. **Phragmosporæ** Sacc.

Sporidia oblonga v. fusoidea 2–pluri–septata, hyalina.

+ Superficiales.

A **Perithecii contextus ruber v. flavicans.**

19. **CALONECTRIA** DNtrs Recl. Pir. ital. in Comm. Critt. II. 477. Perithecia et asci Nectriæ. Sporidia octona,

fusoidea, 2-pluriseptata, hyalina – Status secundarii in nonnullis cogniti.

a. **Genuinæ**: sporidia distincte pluriseptata.

C. **Daldiniana** DNtrs Recl. in Comm. critt. II. 477.

Hab. Locarno (Italia), in foliis dejectis Magnoliæ grandifloræ (Daldini).

Char. Hypophylla. Pyrenia sparsa, mox liberata, rotundata, carneo-rufescentia, cellulis rotundatis contexta, papulosa, osculo exiguo submarginulato demum hiantia in sicco collabescentia – Asci 8spori, sporidiis maturescentibus evanidi. Sporidia tereti-fusoidea, leniter curvula v. sigmoidea, 50–60 ≈ 10–20, plurilocularia, hyalina.

Obs. A typo Nectriæ sporidiis fusoideis, magnis, plurilocularibus distinguitur. DNtrs l. c.

C. **Plowrightiana** Sacc. nova spec.

Hab. in caule putrescente Lappæ in Anglia, Febr. 1878 (C. B. Plowright.).

Char. Perithecia gregaria, subsuperficialia, globoso-conoidea, amœne cinnabarina, $^1/_4$ mill. diam., ostiolo punctiformi nigricante; contextu molliusculo parenchymatico; asci crasse clavati, 90–100 ≈ 20–22, spurie paraphysati, 8spori; sporidia disticha v. subtristicha, cylindraceo-fusoidea, utrinque obtusiuscula, curvula, 40–50 ≈ 6, 5–7-septata, 6–8-guttulata, hyalina.

C. **Pseudo-Peziza** (Dmz.) Sacc. Sphæria Pseudo-Peziza Dmz. I. Notic. (1840) p. 186.

Hab. in ligno decorticato, ramisque Cytisi Laburni, nec non in Arundine Donace, in Gallia.

Char. Gregaria, minima; perithecia globosa, glabra, levia, subpapillata, armeniaca, dein eburnea, collabescendo concava; asci subhyalini; sporidia 3–4 maxima, elongata, recta v. curvula, 4–7-septata.

C. **hirta** (Blox.) Sacc. Nectria hirta Blox., Cooke Hndb. p. 783.

Hab. in lignis putridis in Anglia (Twycross).

Char. Perithecia minuta, subglobosa, breve papillata,

carneo-rubra, hyalino-setulosa. Sporidia disticha, utrinque attenuata, curvula, pluriseptata, 75 lga. hyalina.

C. platasca (Berk.) Sacc. Nectria platasca Bk., Cooke Hndb. 785.

Hab. in ligno putrido in Anglia.

Char. Perithecia sparsa, globosa, aurantiaca, obtuse papillata, basi insculpta – Asci sursum incrassati. Sporidia oblonga, 3-septata, 4-nucleata.

C. pyrochroa (Dmz.) Sacc. Nectria pyrochroa Dmz. XXIV. Not. 18.

Hab. in foliis emortuis Platani, aut., in Gallia.

Char. Amphigena, minuta. Perithecia sparsa, superficialia, globosa, membranaceo-mollia, rubro-aurantiaca, furfuracea, sicca applanata v. concava, ostiolo glabro, brunneo, late conico obtuso - Asci ampli clavato-ventricosi, 75–100 ✕ 25, cito resorpti. Sporidia octona, fusiformia, hyalina, subarcuata, utrinque obtusiuscula, 50–60 ✕ 7 $^1/_2$, 4-nucleato, 3-septata – Conid.: *Glœosporium Platani* (Mtgn.) Oud.

C. Oudemansii (West.) Sacc. Nectria Oudemansii West., Oudem. Nat. Mycol. Néerl. I. 46.

Hab. in ramis emortuis Urostigmatis Neumanni in calidariis Horti botanici Amstelodamii.

Char. Cæspites subrotundi v. elongati, parvi, vulgo 2 mill. diam., sæpe confluentes et secundum fibrarum decursum protracti. Perithecia 2–20 sibi approximata, $^1/_{10}$ mill. diam. pulchre aurantiaca, pulvere subtilissimo albo basi præsertim tecta; ostiolum papilliforme – Asci clavati, octospori, 50–55 micr. lgi, membrana vere invisibili. Sporidia ovali-oblonga, 2-3-septata, hyalina. Oud. l. c. Affinis, sed non identica, *C. citrino-aurantiæ* Lacr. sec. Westendorp.

C. polythalama (Berk.) Sacc. Nectria polythalama B. Fl. New. Zeel. II. 203 - Grevill. IV. 46.

Hab. in Liquidambar et Fraxino in America boreali.

Obs. Sporidia curvula, pluriseptata, 20–25 lga.

C. aurigera (B. & Rav.) Sacc. Nectria auriger B. & R. Grevill. IV. 46.

Hab. in Fraxino in America boreali.

Obs. Cæspitosa aureo-pulverulenta, ostiolo collapso fusco. Sporidia breviter cymbiformia utrinque attenuata, pluriseptata (sæpe 7–septata) 25 m. lga.

C. **flavitecta** (B. & C.) Sacc. Nectria auriger v. flavitecta Grevill. IV. 46.

Hab. in Kerria japonica in America boreali.

Obs. Sporidia 4-septata, 37 m. lga, sæpe strato gelatinoso obvoluta.

C. **Leightonii** (Bk.) Sacc. Nectria Leightonii Bk., Grevillea I. 155.

Hab. in ramis Laricis in Anglia et Cuba.

Char. Sparsa, minuta; perithecia ovata, flava v. sordide rubra; sporidia subcymbiformia, triseptata, hyalina, 25 micr. lga.

C. **Volutella** (B. & Br.) Sacc. Nectria Volutella B. & Br. F. Ceyl. n. 1013, pag. 115.

Hab. in foliis Atalantæ monophyllæ, super quadam crusta lichenoidea, alba, hispida.

Char. Carneo-pallida, ostiolo obscuriore, setis pallidis ornata; sporidia fusiformia uno latere ventricosa, biseptata.

C. **erubescens** (Dmz.) Sphæria (denudata) erubescens Dmz. XIII Not. p. 72.

Hab. in pag. inf. foliorum Ilicis Aquifolii, in Gallia, autumno.

Char. Sparsa v. subgregaria, superficialis basi villosa alba radiata. Perithecia minuta, globosa, mollia, glabra, testacea dein badio-rubra collabescendo concava: ostiolo papilliformi – Asci clavati 50 lgi. Sporidia oblonga, subacuta, subcurvula, 17×4, 3–septata, hyalina.

C. **Bloxami** (B. & Br.) Sacc. F. V. ser. IV. 23. & F. ital. tab. 195. Nectria Bloxami B. & Br., Cooke Hndb. 787.

Hab. in ramulis Vincæ majoris in Italia, Verbasci in Germania, in caulibus herbaceis in Anglia.

Char. Perithecia semiimmersa, discreta, globulosa, carnea – Asci cylindraceo-subclavati, basi attenuati, $65–70 \times 8–10$, apice subtruncati, lumineque coarctati, 8spori.

pseudoparaphysibus filiformibus obvallati. Sporidia inordinate disticha, fusoidea, 15 ∗ 3 $^1/_2$–4, utrinque acutiuscula, 4–guttulata, medio subinde constricta, recta v. curvula, matura certe 3–septata. Sacc. l. c.

C. **ochraceo-pallida** (B. & Br.) Sacc. F. V. ser. IV. 23. F. it. tab. 195. Nectria ochraceo-pallida B. & Br., Cooke Hndb. 786.

Hab. in ramulis Ulmi in Anglia, in caulibus Salviæ glutinosæ in Italia.

Char. Perithecia superficialia, sphæroidea, carneoluteola – Asci clavati, deorsum attenuati, 70 ∗ 11, initio pseudoparaphysati, 8spori, apice attenuato-subtruncati, lumineque abrupte coarctato. Sporidia disticha, fusoidea, curvula, 18–20 ∗ 4 $^1/_2$–5, initio nucleolis 4 cuboideis fœta, dein 3–septata, hyalina. Sacc. l. c. – Sec. Crouan Fin. p. 39, hæc species gauderet sporidiis 7–8–septatis; ergo cl. Crouan speciem diversam sub oculis habuisse liquet.

C. **duplicella** (Nyl.) Karst. Fenn. II, 218. Sphæria duplicella Nyl.

Hab. in cæspitibus Jungermanniarum in Lapponia rossica.

Char. Perithecia sat sparsa, subsphæroidea, sicca supra depressa inde pezizoidea, glabra, albida, v. carnea, $^1/_5$–$^1/_3$ mill. diam. – Asci 90 ∗ 16–18. Sporidia 2–4na, fusoideo-elongata 35–50 ∗ 9–10, 3–7–septata (septis sæpe nonnihil irregularibus v. sæpe non æquidistantibus) hyalina. Paraphyses graciles, apice subæquali v. leviter incrassato – Perithecia sicco collabentia, gialectoidea. Karst. l. c.

C. **Fuckelii** (Nke) Sacc. Nectriella Fuckelii Nke, Fckl. Symb. 176.

Hab. in ligno putri indurato Populi nigræ *bei Oestrich*, Aut.

Char. Perithecia sparsa semiimmersa, punctiformia, mollia, diaphana, basi globosa, sursum conica, flavo-rubra; asci elongati, 8spori; sporidia disticha, oblonga, utrinque parum attenuata, 3–septata, septo intermedio distinctiore, 16 ∗ 6, guttulata, hyalina.

C. decora (Wallr.) Sacc. Sphæria decora Wallr. Crypt. II. 842. Nectria decora Fckl. Symb. 179, t. IV. fig. 4.

Hab. in ramorum rimis Aceris campestris in Germania, vere.

Obs. Asci oblongi, 94 ⁎ 18, 8spori; sporidia subdisticha, ovato-oblonga, utrinque parum attenuata, 3–septata, 24 ⁎ 8, hyalina.

C. agnina (Dmz.) Sacc. Sphæria (villosa) agnina Dmz. XIII. Not. p. 72.

Hab. ad ramos siccos Ulmi, in Gallia, autumno.

Char. Perithecia minutissima, ovoidea, sparsa v. aggregata, fulvo-lutea, villo tenui helvolo tecta, ostiolis rotundatis, nitidis aurantiacis – Asci clavati 100 lgi. Sporidia oblonga recta, utrinque obtusa, 20 lga, 3–septata, subhyalina.

C. varians Sacc. Michelia I. 52 & F. ital. tab. 154.

Hab. in ramis putrescentibus corticatis Mori albæ, socia Botryosphæria (Gibberella) pulicari β moricola, in Italia.

Char. Perithecia superficialia, plerumque circum stroma crassiusculum pallidum aggregata, rarius, stromate fere deficiente, subsparsa, e globoso conoidea v. subangulosa, aquose carnea, levia, ostiolo, acutiusculo, denique leviter collabescentia, contextu parenchymatico, roseo; asci cylindraceo-fusoidei, 80–100 ⁎ 12–15, deorsum attenuati, lumine apice coarctato, aparaphysati, 8spori; sporidia oblique monosticha v. disticha, fusoidea, 20–24 ⁎ 7, recta v. curvula, utrinque obtusiuscula, 3–septata ad septa constricta, hyalina.

C. viburnicola (Cr.) Sacc. Nectria viburnicola Cr. Fin. 39.

Hab. in ramis emortuis Viburni Tini, in Gallia, vere.

Char. Perithecia $^1/_2$ mill. diam., flavo-aurantia, cortice semiimmersa, sphærica v. ovoidea, mollia; nucleus albus; asci clavati, 8spori; paraphysibus filiformibus obvallati; sporidia fusoidea, 7–8–septata, 8–9-guttulata, hyalina.

C. opalina (Cr.) Sacc. Nectria opalina Cr. Finist. 39.

Hab. in caulibus emortuis, submersis Cirsii palustris, in Gallia, vere.

Char. Perithecia 1–2 mill. diam., alba, ovoidea, semiimmersa, contextu filamentoso-reticulato, ostiolo papillato – Asci subclavati, paraphysibus filiformibus obvallati, octospori. Sporidia fusiformia, 8–septata, hyalina.

C. Massariæ (Pass.) Sacc. Fung. ital. tab. 193. Nectria Massariæ Pass. in Rbh. F. E. 1827.

Hab. in ostiolis Massariæ inquinantis ad ramulos Aceris campestris, in Italia.

Char. Perithecia 2–5–subaggregata, e globoso conoidea, minuta, $^1/_8$ mill., rosea, ostiolo punctiformi; asci fusoideo-elongati, 70 ∗ 15, apice acutiuscule subtruncati, aparaphysati, 8spori. Sporidia disticha, oblongo-fusoidea, 22–30 ∗ 8, utrinque obtusiuscula, recta v. curvula, 4-nucleata, rarius pluriguttulata, dein 3–septata, ad septum medium vix constricta, hyalina.

C. macrospora Sacc. & Sp. F. ital. tab. 197. Michelia II. 251.

Hab. in cortice emortuo Vitis viniferæ, a *Conegliano* (Italia).

Char. Perithecia sparsa, erumpentia v. semierumpentia, fibrisque corticalibus obvelata, globoso-conoidea, vertice subtruncata, croceo-aurantiaca, contextu molliusculo, parenchymatico; asci elongato-clavati, apice rotundati, lumineque initio coarctato, deorsum attenuato-stipitati, p. s. 110–120 ∗ 30, paraphysati, 8spori; sporidia di-tri-sticha, fusoidea, 50–65 ∗ 12–15, leniter curva, 7–8–septata, ad septum medium leniter constricta, grosse 8–9-guttulata, hyalina.

C. Cucurbitula (Fr.) Sacc. Nectria Cucurbitula. Fr. Scler. Suec. n. 263, sec. Mtgn. Plant. cellul. VIII. Cent. p. 72.

Hab. in cortice Pini, Meliæ Azedarach &c.

Char. Cæspitosa; perithecia ovato-globosa, levia aurantio-rubra, collapsa cupuliformia, ostiolo obsoleto – Asci clavati 100 lgi, paraphysibus filiformibus pluriguttulatis, obvallati, octospori. Sporidia oblongo-fusoidea, 15 ∗ 4, 5–6–septata, hyalina.

C. funicola (B. & Br.) Sacc. Nectria funicola B. & Br. Cooke Hndb. 784.

Hab. in chorda putrescente in Anglia.

Char. Perithecia sparsa, aurantia, ovoidea, sursum attenuata, pilis obtusis, brevibus, hyalinis raris vestita – Asci clavati; sporidia oblongo-ellipsoidea, inæquilateralia, 3–septata, 4–nucleata, hyalina.

C. **rigidiuscula** (B. & Br.) Sacc. Nectria rigidiuscula B. & Br. F. Ceyl. n. 1024.

Hab. in corticibus Zeylani.

Char. Cæspitosa; perithecia ovata, pallide coccinea, vix collabentia; asci . . . .; sporidia submetulæformia, 4–nucleata, demum 3–septata, 25 lga. – Affinis *C. ochraceo-pallidæ* sed habitu et colore differt.

b. **Desciscentes**: sporidia fusoidea 1-serialiter pluriguttulata (tandem prob. pluriseptata).

C. **flavida** (Cda) Sacc. Sphæria flavida Cda IV. 40 f. 117.

Hab. in ligno putrescente Alni prope Pragam, vere.

Char. Hypostroma floccosum, flavum, tenue. Perithecia subglobosa, minuta, aurantiaca, villo tenui flavido tecta, ostiolo nudo rotundato; nucleo flavido – Asci (ex icone) crasse fusoidei. Sporidia fusiformia curvula, 12 $^3/_4$ lga, 2–3–4 guttulata, hyalina.

C. **Levieuxii** (Fr.) Sacc. Nectria Levieuxii (Fr.) Cr. Finist. 37.

Hab. in cortice Ulmi in Gallia.

Char. Effusa emersa, coccineo-miniata; stroma rubro-pallescens; perithecia numerosissima, minuta, comata demum prominuta, collabentia (Fr. Elench. II. 84). Sporidia oblonga, 4–guttata (Cr. l. c.)

C. **Jungermanniarum** (Cr.) Sacc. Nectria Jungermanniarum Cr. Finist. 37.

Hab. in cortice Ulmi in Gallia.

Char. Perithecia 3–4 mill., flavo-aurantia, sessilia, oblonga, vertice pilis rectis hyalinis coronata, mycelio filamentoso laxe insidentia, subtortuosa – Asci crasse clavati, 8spori, paraphysibus asco longioribus, apiceque coronatis obvallati. Sporidia navicularia, crasse 3–nucleata, hyalina.

C. citrino aurantia (De Lacr.) Sacc. Nectria citrino-aurantia Dmz. Ex 2 Ser. n. 778 (non vidi), Tul. Carp. III. 86.

Hab. in ramis emortuis Salicis et Genistæ in Gallia.

Char. Perithecia minutissime globosa, umbilicata dilute flavida in cæspites exiguos obtusos dense aggregata – Asci obovato-lineares, 50 ✻ 5; sporidia cylindracea, vix ovata, 6–8 ✻ 3 $^1/_2$, 4–guttulata, 2– dein 3–locularia hyalina.

C. aurea (Cr.) Sacc. Nectria aurea Cr. Finist. 37.

Hab. in sarmentis emortuis Rubi in Gallia.

Char. Perithecia $^1/_5$ mill. diam., flavo-aurea, subovoidea, infra medium bysso aureo-citrino vestita – Asci fusoidei. Sporidia cylindracea, 4–guttata, hyalina.

C. Brongniartii (Cr.) Sacc. Nectria Brongniartii Cr. Fin. 37.

Hab. in trunco Ilicis ad frondem Frullaniæ dilatatæ in Gallia.

Char. Perithecia $^1/_5$ mill. diam., flavo-aurantia, sphærica, mollia, contextu filamentoso-reticulato, mycelio albo araneoso insidentia. Asci fusoidei, 8–spori. Sporidia, subcylindracea, 4–guttata, hyalina.

C. dacrymycella (Nyl.) Sacc. Nectria dacrymycella (Nyl.) Karst. Fenn. II. 216.

Hab. ad caules Urticæ &c. in Fennia, Germania, Tyrolia &c.

Char. Perithecia juvenilia omnino innata, deinde denudata, hemisphærica, prominula, apice depressiuscula, subtremelloidea, aurantio-lutea, minuta, diam. $^1/_5$ mill., glabra. Sporidia octona, fusoidea, tenuiter uniseptata, 2–4–guttulata hyalina 16–18 ✻ 3 $^1/_2$–4 $^1/_2$; paraphyses propriæ nullæ. Karst. l. c. – Probabiliter sporidia tandem tenuiter pluriseptata fiunt.

C. Sceptri (Karst.) Sacc. Nectria Sceptri Karst. Fenn. II. 216.

Hab. ad caules emortuos Pedicularis Sceptri in Lapponia.

Char. Perithecia sparsa, subinde nonnulla subcon-

fluentia, epidermide tecta, deinde emersa, denudata, sphæroideo-applanata, vertice depressiuscula, in sicco senio subcupuliformia, subtremelloidea, levia, glaberrima, subaurantiaco-lutea, $^2/_5$ mill. diam. – Asci subcylindracei, 46–60 ∗ 5, aparaphysati. Sporidia fusoideo-elongata, 12 ∗ 2 $^1/_2$, 4-guttulata, hyalina.

C. **muscivora** (B. & Br.) Sacc. Nectria muscivora B. & Br., Cooke Hndb. p. 786. Sensu Dmz. eadem esset ac *N. bryophila* Rob. & Dmz.

Hab. ad muscos in Anglia, ad Jungermannias in Carolina austr.

Char. Mycelium effusum album, tomentosum. Perithecia aggregata, aurantia, semiimmersa, ovoidea quandoque collabentia, ostiolo papilliformi – Asci clavati. Sporidia breve fusoidea, utrinque acuta, 4-nucleata, 1-septata, tandem probabiliter triseptata. Cooke l. c.

C. **helminthicola** (B. & Br.) Sacc. Nectria helminthicola B. & Br., Cooke Hndb. p. 787.

Hab. parasitice in specie quadam Helminthosporii in Anglia.

Char. Parasitica, carnea, minuta, globosa, glabra – Asci sursum attenuati, sæpe curvi; sporidia hyalina, 2–4-nucleata, 15 lga, denique 1–3-septata. *Nectria helminthicola* Fckl. Symb. 181 diversa est.

C. **luteola** (Dmz.) Sacc. Sphæria luteola Dmz. XIX. Not. p. 19.

Hab. in foliis siccis arborum Fraxini, Tremulæ, Aceris in Gallia, æstate.

Char. Amphigena erumpens, demum superficialis, sparsa v. subgregaria. Peritheciis minutissimis, sphæricis, mollibus, luteolis, dein argillaceis, collabescendo pezizoideis, ostiolo exiguo papilliformi, mox evanido. Asci 8spori, clavati 50 lgi. Sporidia inordinata, oblonga, obtusa, recta v. curvula, glauca, subhyalina, 3–4-guttulata, 15–20 ∗ 5–6 (sec. Tul. Carp. III. 94; asci 70–90 lgi; sporidia tantum biloculata, 13 ∗ 3).

C. **pulcherrima** (B & Br.) Sacc. Nectria pulcherrima B. & Br. Fung. Ceyl. n. 1021 p. 116.

Hab. in corticibus in Ceylon.

Char. Cæspitosa; perithecia lenta, coccinea, furfuracea, ostiolo papilliformi; sporidia biseriata fusiformia, 4–nucleata.

C. **Curtisii** (Berk.) Sacc. Nectria Curtisii Bk. Grevillea IV. 46.

Hab. in (culmo?) Zeæ in Carolina inferiore.

Char. Minuta, erumpens, sparsa; asci lanceolati; sporidia oblonga, curvata, 4–nucleata, 12 $^1/_2$ ✶ 2–3, hyalina.

C. **minuscula** Sacc. & Sp. Michelia II. 251. F. ital. tab. 194.

Hab. in foliis subputrescentibus Cryptomeriæ japonicæ, in Italia.

Char. Perithecia globulosa, subsuperficialia, hyalino-rosea, $^1/_8$ mill. diam., basi hyphulis parcis vestita, ostiolo crassiusculo, truncato, latiuscule pertuso; asci fusoideo-cylindracei, sub apice initio contracti, basi attenuati. 40 ✶ 7–8, aparaphysati, tetraspori; sporidia fusoidea, v. subclavata, utrinque obtusiuscula, curvula, 15–16 ✶ 3–3 $^1/_2$, 4–nucleata (v. granulosa) hyalina (verisimiliter matura 3–septata).

C. **obvoluta** Karst. Fenn. II. 217.

Hab. in foliis aridis Calamagrostidis in Fennia (*Mustiala*), Oct.

Char. Perithecia sparsa, superficialia, sphæroidea, arescendo collapsa, poropertusa, flavida, villo-albo obvoluta, $^1/_3$–$^1/_2$ mill. diam. – Asci fusoideo-elongati, 40–45 ✶ 5–6. Sporidia octona disticha v. oblique monosticha, fusoideo-elongata, 8–12 ✶ 2, pluriguttulata, hyalina. Conidia supra mycelium elongata, hyalina, 6 ✶ 1 $^1/_2$.

C. **xantholeuca** (Kunze) Fr.? Karst. Symb. VI. 241. Ad caules Trifolii medii exsiccatos in Fennia – Asci cylindracei, 8 cr.; sporidia fusoideo-elongata, 11–16 ✶ 3–3 $^1/_2$, 2–4-guttata, hyalina.

C. **Ulicis** (Cr.) Sacc. Nectria Ulicis Cr. Finist. 38.

Hab. in radicibus et caulibus emortuis Ulicis in Gallia.

Char. Perithecia solitaria, globulosa, majuscula, levia, atropurpurea, ostiolo vertice nigricante; asci dehi-

scentes, octospori; sporidia cymbiformia, 1-guttata, 1-septata, hyalina.

C. **luteo-fusca** (Cr.) Sacc. Nectria luteo-fusca Cr. Finist. 39.

Hab. in chorda putrescente dejecta in Gallia.

Char. Perithecia $^1/_2$ mill. diam., castaneo-fusca, sphæroidea (sicca cupuliformia) contextu reticulato, ostiolo punctiformi; asci fusoidei, 8spori; sporidia fusiformia, 4-guttata, 1-septata.

20. **PARANECTRIA** Sacc. Perithecia nectriacea – Asci octospori. Sporidia cylindraceo-sigmoidea, utrinque setigera, 3-septata, hyalina.

P. **affinis** (Grev.) Sacc. Sphæria affinis Grev., Dmz. XXIII. Not. p. 6. Nectria affinis (Gr.) Fr. Summa 387.

Hab. in thallo Ephebes pubescentis in Anglia et Gallia.

Char. Perithecia pauca, minutissima, sparsa, globosa, $^1/_4$ mill., membranacea submollia, aurantiaca, subpapillata, basi villo albido tecta – Asci clavati 75 ⁎ 15, octospori. Sporidia inordinata v. disticha, sigmoidea, 30 ⁎ 10, triseptato-nucleata, hyalina, utrinque setulâ rectâ 10–15 lgâ aucta.

B. Perithecii contextus cyaneus v. violaceus.

21. **GIBBERELLA** Sacc. Michelia I. 43. Perithecia Liseæ – Asci octospori; sporidia ex ovoideo fusoidea 3–pluriseptata subhyalina.

Stat. conid. *Fusarium* seu *Selenosporium* referens.

G. **pulicaris** (Fr.) Sacc. Mich. I. 43. Botryosphæria pulicaris (Fr.) Ces. & DNtrs, Sacc. F. Ven. ser. IV. 5 – Asci 70–90 ⁎ 10–14; sporidia 3–septata 15–30 ⁎ 5–7.

subsp. *typica* Sacc. F. Ven. ser. IV. 5. In Sambuco, Laburno &c. in tota Europa.

subsp. *moricola* (DNtrs.) Sacc. l. c. In Moro et Broussonetia in Italia et Germania.

subsp. *baccata* (Wallr.) Sacc. l. c. In Robinia, Viburno &c. in Italia, Germania &c.

subsp. *Saubinetii* (Dur. & Mtgn.) Sacc. l. c. (cum

plurr. variat.) In ramulis caulibusque plantarum variarum in tota Europa et Algeria.

G. **acervalis** (Moug.) Sacc. Gibbera ac. Fckl. Symb. 166. In ramis Salicis capreæ — Asci oblongi 76 * 10; sporidia, ovato-oblonga, 3-septata, 18 * 6, hyalina. Spermogonia nota.

G. **Evonymi** Fckl. (sub Gibbera) Symb. 167. In cortice Evonymi europei — Asci ovato-oblongi, 64 * 12; sporidia oblonga, utrinque obtusa, 3-septata, 20 * 6, hyalina.

G. **flacca** (Wallr.) Sacc. Gibbera flacca Fckl. Symb. 168. In caulibus Solani Dulcamaræ (Fckl.) et Broussonetiæ (Niessl).

Obs. Ceteræ Botryosphæriæ species in libris Notarisianis meisque recensitæ, perithecio subcarbonaceo fuligineo-atro, sporidiisque continuis donatæ, in genere sphæriaceo (nec hypocreaceo) Botryosphæria manebunt.

++ **Ligno immersæ (endoxylæ)**

22. **CESATIELLA** Sacc. Michel. II. 250. Perithecia ligno immersa molliuscula, succinea, stromate obsoleto limitata, globosa, papillulata — Asci paraphysati, 8spori; sporidia fusoidea (falcata) pluriseptata, hyalina.

C. **australis** Sacc. & Sp. Michelia II. 250, F. ital. t. 198. In ramis emortuis Oleæ europeæ in Italia — Asci cylindracei, 95–105 * 12; sporidia arcte falcata, fusoidea, 40–45 * 5, 3-septata, non constricta, hyalina.

Sect. 5. **Scolicosporæ** Sacc.

Sporidia filiformia v. bacillaria pluriseptata, raro continua, hyalina.

+ **Stromaticæ.**

23. **CLAVICEPS** Tul. in Ann. S. N. ser. III. XX. p. 43 (1853). Stroma stipitatum erectum e sclerotio oriundum, capitatum. Perithecia stromati immersa, non prominula. Sporidia filiformia, continua, hyalina. Spermogonia et conidia nota.

C. purpurea (Fr.) Tul. Ann. Sc. nat. XX. p. 45 (1853). In caryopside sclerotio affecta Secalis Cerealis – Asci lineares; sporidia filiformia, continua, hyalina.

Mycel. quiet.: *Sclerotium Clavus* DC. – Spermog.: *Sphacelia segetum* Lév. – Conid.: *Fusarium heterosporum* Nees.

Varietates sunt β *Acus* Trog. in caryops. Calamagrostidis) et γ *Hookeri* Kl. (in Bk. Engl. Fl.)

24. **CORDYCEPS** Fr. Summa 381. p. p. Torrubia Lév., Tul. Stroma stipitatum erectum, sæpius entomogenum v. mycogenum, clavatum. Perithecia semiimmersa prominula, v. sublibera (in subg. *Racemella* Ces.) Asci octospori. Sporidia filiformia in articulos mox secedentia, hyalina.

Stat. conid. *Isariam* sistens.

C. militaris (L.) Link Hndb. III. 347. Torrubia militaris Tul. In larvis insectorum putrescentibus in Europa et Asia – Asci longissimi, lineares 4 micr. cr.; sporidia filiformia, dein in articulos ovatos minutissimos secedentia.

Status conidicus *Isariam farinosam* Fr. sistens.

C. ophioglossoides (Schmid.) Link Hndb. III. 347. Torrubia ophioglossoides Tul. Parasitica in Elaphomycete granulato – Asci cylindrici 7–9 micr. cr. Sporidia filiformia, dein in articulos subellipsoideos, 3–4 ∗ 2–3 secedentia, luteola.

C. capitata (Holmsk.) Lk. Hndb. III. 347. Torrubia capitata Tul. Parasitica in Elaphomycete granulato – Asci cylindracei, 15 cr. Sporidia filiformia, dein in articulos elongatos, 25–40 ∗ 6, secedentia, chlorino-hyalina.

C. myrmecophila Ces. in Kl. Herb. myc. n. 1033. Torrubia myrm. Tul. In Myrmica rufa et Ichneumone in Europa et Asia – Asci cylindrici 300 ∗ 6–7. Sporidia filiformia, dein in articulos cylindro-fusoideos, 7–11 ∗ 1–2, hyalinos secedentia. Cfr. Comm. Critt. ital I. t. 4 f. 2.

C. fuliginosa Ces. in Comm. critt. ital. I. 67 t. 6 f. 1. In chrysalidibus Bombycis antiquæ. Nucleus immaturus visus.

C. Gunnii Bk. in Curr. Comp. Sph. 262. In Australia – Asci cylindracei; sporidia filiformia in articulos subcuboideos 1-guttulatos, 5 micr. lgos hyalinos secedentia.

C. **entomorrhiza** (Diks.) Fr. Summa 381. Torrubia entomorrhiza Lév. In larvis et chrysalidibus insectorum in Europa et Australia – Asci cylindrici. Sporidia filiformia in articulos cylindricos, 7–8 lgs secedentia, hyalina (Curr).

C. **gracilis** (Grev.) Dur. & Mtgn. Alg. I. 449. Xylaria gracilis Grev. In larvis ad terram in Anglia, Gallia et Algeria – Asci longissimi cylindrici; sporidia capillaria in segmenta cylindroidea secedentia. Sec. Tul. vix diversa a *C. entomorrhiza*.

C. **Hügelii** Cda Anl. 136 et 207 (Icon. f. IV. 44 f. 129). In larvis Bombycum in Nova-Zelandia. Asci cylindraceo-fusoidei, 12–16 micr. cr.; sporidia bacillari-fusoidea, 18–20-septata, 2 $^3/_4$–3 cr., curvula – Secundum DNtrs forte eadem species ac *C. Robertsii* Hook.

C. **cæspitosa** Tul. Carp. III. 11, sub Torrubia. In Cicadis defossis in Nova Zelandia. – Fructificatio . . . .

C. **Miquelii** Tul. Carp. III. 11, sub Torrubia. In larva Cicadæ in Brasilia. – Fructificatio . . . .

C. **Melolonthæ** Tul. Carp. III. 12, sub Torrubia. In larvis infossis Melolonthæ in America boreali. – Fructificatio . . . .

C. **sinensis** Berk. in Hook. Journ. 1843. 207. In larvis insectorum in Sina. – Fructificatio . . . .

C. **Tayloris** Berk. in Hook. Journ. 1843 p. 209. In larvis insectorum. – Fructificatio . . . .

C. **Humberti** Rob. in Tul. Carp. III. 18. In Icaria (Vespa) cincta in Senegal. – Fructificatio . . . .

C. **unilateralis** Tul. Carp. III. 18, sub Torrubia. In Atta (Formica) cephaloti in Brasilia. – Fructificatio . . . .

C. **coccigena** Tul. Carp. III. 19, sub Torrubia. In Coccis in Nova Guinea. – Fructificatio . . . .

C, **Curculionum** Tul. Carp. III. 20, sub Torrubia. Clav. entomorrhiza Rob. Hist. veg. par. 650, nec Dicks. In Curculionibus exoticis.

C. **cinerea** B. & C. Torrubia cinerea Tul. Carp. I. 16. In larvis et insectis perfectis Caraborum – Asci cylindrici; sporidiorum articuli lineares, recti 7–10 lgi.

C. **Barnesii** Thw. in B. & Br. Ceyl. F. n. 977. In larva

Melolonthæ in Ceylon – Conidia nota; nucleus indescriptus.

C. **sobolifera** (Hill.) Berk. in Hook. Lond. bot. Journ. 1843 p. 207. Torrubia sobolifera Tul. Carp. III. 10. In larvis insectorum lamellicornium in Ceylon – Asci cylindrici; sporidiorum articuli lineares, diametro 8plo longiores.

C. **Sphingum** B. & C. Cub. F. n. 746. Torrubia Sphingum Tul. Carp. III. 12. In Sphingibus in Europa et America – Asci cylindracei, 4 cr.; sporidia filiformia – St. conid.: *Isaria Sphingum* Schw.

C. **dipterigena** B. & Br. Ceyl. F. n. 980. In insectis dipteris in Ceylon. – Nucleus indescriptus.

C. **Montagnei** B. & C. Cub. F. n. 747. Isaria gigantea Mtgn. In corpore Mygales cubanæ, Cuba.

C. **memorabilis** Ces. Racemella memorabilis Ces. in Comm. critt. ital. I. 65 t. IV. f. 1. In corpore Staphylini spec. in Italia boreali – Asci cylindracei, 100–120 ∗ 4; sporidiorum articuli innumeri, minutissimi, spermatioidei.

C. **Robertsii** Hook. in Curr. Comp. Sph. p. 265 f. 26. In larva Hepiali virescentis – Asci cylindracei; sporidia bacillaria, in articulos cylindricos secedentia, hyalina

C. **Wallaysii** West., Kx Fl. I. 315. In larva insecti cujusdam in Belgia – Asci cylindraceo-clavati, 80–90 lgi. Sporidia capillaria, recta v. flexuosa 30–40 micr. lga, hyalina.

C. **bicephala** Bk. in Hook Journ. 1856, 278. Rionegro.

C. **falcata** Bk. in Hook. Journ. 1854 t. 8 f. 2. Himalaya.

C. **racemosa** Bk. in Hook. Journ. 1854 t. 8 f. 3. Himalaya.

C. **acicularis** Bk. in Act. Soc. Linn. 1856 I. tab. 1. In larvis.

C. **flavella** B. & C. Cub. F. n. 748. In quodam Sclerotio inter folia, Cuba – Asci angustissimi.

C. **caloceroides** B. & C. Cub. F. n. 749. Ad terram. Cuba. (Nucleus indescriptus).

C. **sphecocephala** (Kl.) B. & C. Cub. F. n. 751. Torrubia sphecocephala Tul. Carp. III. p, 16. In Vespis.

in Jamaica – Asci longissime filiformes; sporidiorum articuli brevissimi, ovato-lineares.

C. pistillariæformis B. & Br. Ann. Mg. n. h. 1861. VII. p. 451. Torrubia pistill. Cooke Hndb. 771. In ramis Ulmi ex Sclerotio in Anglia. Nucleus indescriptus – An Claviceps?

C. palustris Bk. in Act. Soc. Linn. 1856 I. t. I. In larvis Amer.

C. Ravenelii Bk. in Act. Soc. Linn. 1856 I. t. I. In larvis Ancylonychæ Americæ borealis.

C. Sinclairii Bk. Introd. to bot. crypt. I. 73.

C. stylophora Bk. Act. Soc. Linn. 1856 I. t. I. In larvis in Amer. boreali.

C. armeniaca Bk. in Act. Soc. Linn. 1856 I. t. I. In larvis Amer. bor.

C. carolinensis Rav. F. Carol. IV. 29. In Carolina.

25. **EPICHLOE** Fr. (ut subg.) Summa 381. Stroma sessile effusum, primitus conidiophorum. Perithecia immersa, ostiolis vix prominulis – Asci octospori. Sporidia filiformia pluriseptata, luteolo-hyalina.

E. typhina (Pers.) Tul. Carp. III 24. In vaginis vivis Phlei pratensis et Dactylidis glomeratæ – Asci lanceolato-lineares, 152 ∗ 8, stipite incrassato; sporidia prælonga, cylindracea, in articulos continuos multiguttulatos, 38 ∗ 2, hyalinos secedentia.

E. Pulvinulus B. & Br. F. Ceyl. n. 981. In speciebus Panici in Ceylon – Asci lineares, flexuosi; sporidiorum articuli breves.

E. cinerea B. & Br. F. Ceyl. n. 982. In Eragrostide nutante in Ceylon – Asci . . . .; sporidia longa, filiformia.

E. strangulans (Mtgn.) Sacc. Cordyceps strangulans Mtgn. Syll. 200. Ad culmos Paspali, Cayenna – Asci longissimi, cellula pellucida coronati; sporidia linearia, in segmenta secedentia.

26. **HYPOCRELLA** Sacc. Stroma et perithecia Hypocreæ – Asci octospori (?) sporidia filiformia.

H. discoidea (B. & Br.) Hypocrea disc. B. & Br. F.

Ceyl. n. 998. In foliis Zingiberis in Ceylon – Asci clavati; sporidia filiformia, obscure multinucleata, 100 micr. lga.

H. Bambusæ (B. & Br.) Hypocrea Bambusæ B. & Br. F. Ceyl. n. 999. In inflorescentia Bambusæ in Ceylon – Asci lineares apice capitellati; sporidia filiformia.

H. atramentosa (B. & C.) Hypocrea atramentosa B. & C. Cub. F. n. 758. In foliis Andropogonis Cuba – Asci . . . .; sporidia filiformia.

H. semiamplexa (Berk) Cfr. Cub. Fungi n. 758. *Sphæria Cyperacearum* Schw. Herb. sec. Berk. In Cyperaceis in Surinam – Asci . . . .; sporidia filiformia.

++ **Simplices.**

27. **OPHIONECTRIA** Sacc. Perithecia Nectriæ – Asci octospori. Sporidia filiformia multiseptata v. multiguttulata.

O. trichospora (B. & Br.) Sacc. Nectria trichospora B. & Br. F. Ceyl. n. 1014 p. 115.

Hab. in Ceylon.

Char. Perithecia ovata, elongata, aspera, coccinea; asci clavati; sporidia filiformia longissima, multiseptata, 215 micr. lga.

O. mellina (Mtgn.) Sacc. Nectria mellina Mtgn. Syll. 225.

Hab. in ramulis dejectis apud Mustapha Algeriæ.

Char. Sparsa v. gregaria suberumpens; perithecia sphærico-depressa, pomiformia e pallide miniato tandem mellina, ostiolo impresso papillata. Asci clavati. Sporidia acicularia, polysticha, multiseptata.

O. paludosa (Cr.) Sacc. Nectria paludosa Cr. Finist. 38.

Hab. in basi caulium Rubi et Cirsii palustris putridarum in Gallia.

Char. Perithecia $^1/_2$ mill. diam. albo-carnea, ovoidea, reticulato-contexta – Asci cylindracei, dehiscentes, 8spori. Sporidia filiformia, prælonga, multiguttulata.

28. **BARYA** Fckl. Symb. 93. Perithecia carnosa subdiaphana, demum cornea, conica acuta, hyphulis conidiophoris insidentia. Conidia oblonga, 1–septata, hyalina – Asci 8spori. Sporidia bacillaria, continua, hyalina.

B. parasitica Fckl. S. mb. 93 (inter Acrospermaceos). In Bertia moriformi parasitica – Asci fusoidei, globuloso-stipitati 146 ≈ 8; sporidia filiformia, continua ascos æquantia. Mycelium conidiophorum: conidia oblonga 1-septata.

29. **OOMYCES** B. & Br. Ann. N. H. n. 590 (1851). Perithecia (pauca) sacculo communi (carneo) inclusa, verticalia – Asci lineares; sporidia octona filiformia, continua, hyalina.

O. carneo-albus (Lib.) B. & Br., Cooke Hndb. 780. In foliis Airæ cæspitosæ in Anglia, Germania, Gallia – Asci et sporidia ut supra.

Sec. cl. DNtrs in Comm. Critt. ital. II 314 species hæc nec non *O.* Schmitzomia?) *insignis* DNtrs l. c. in ramis Populi tremulæ (Valsesia) aptius ad Stictideas inter Discomycetes referenda est – In *O. insigni* adsunt asci elongati tortuosi, copiosissimi; sporidia filiformia ascum æquantia, pluriarticulata, flavida.

Clar. Fuckel *O. carneo-album* inter Acrospermaceas collocat.

Sect. 6, **Dictyosporæ** Sacc.

Sporidia ovoidea v. suboblonga, septato-muriformia, hyalina.

+ Superficiales, simplices v. cæspitosæ.

30. **PLEONECTRIA** Sacc. F. Ven. novi ser. V. 178. Perithecia Nectriæ – Asci octospori; sporidia matura, pluriseptato-muriformia, hyalina, sæpius spermatiis (?) intermixta.

P. Lamyi (Dmz.) Sacc. M. V. n. 688 et F. ven. l. c. Sphæria Lamyi Dmz. In ramis emortuis Berberidis vulgaris in Italia, Gallia, Germania, Anglia &c. – Asci clavati 90 ≈ 100 ≈ 15–16; sporidia ovato-oblonga, 18–26 5 $^1/_2$–6, 3–5-septato-muriformia, hyalina.

P. Berolinensis Sacc. Michelia II. 123. *Nectria Ribis* Niessl. non Rabh. In ramis emortuis *Ribis aurei* (?) in Germania – Asci cylindracei, 90–100 ≈ 10; sporidia ovato-oblonga, 18–20 ≈ 8, 7-septato-muriformia, guttulata, hyalina.

P. lichenicola (Cr.) Sacc. Nectria lichenicola Cr. Finist. 256. In thallo lichenum in Gallia – Asci oblongi dehiscentes; sporidia subfusoidea, utrinque acute attenuata, merenchymatica (muriformia).

Obs. Sphærostilbe pseudotrichia (Schw.) B. & Br. F. Ceyl. n. 1004 ob sporidia cellulosa ad *Pleonectriam* forte pertinet.

++ **Stromaticæ, immersæ.**

31. **THYRONECTRIA** Sacc. in Grevill. IV. 21. Stroma valseum corticale tectum vix erumpens. Perithecia monosticha, carnosula, rosea, extus flavo-furfuracea, ostiolis brevissimis – Asci octospori, paraphysati. Sporidia oblonga, initio cribrose guttulata dein tenuiter septato-muriformia, hyalina – Spermatia nota.

T. Patavina Sacc. F. Ven. novi ser. IV. 23 et F. ital. tab. 153. In ramis Juglandis regiæ in Italia – Asci cylindraceo-clavati, 80–90 ∗ 12, paraphysati; sporidia ovato-oblonga, sæpius curvula 25 ∗ 9–11, raro 30 ∗ 8, 7–8–septato-muriformia, guttulata, hyalina.

T. pyrrochlora (Awd.) Sacc. Nectria pyrrochlora Awd. in Hedw. 1869 p. 88. In ramis corticis Aceris campestris – Asci tubulosi; sporidia ovalia, muriformi-polyblasta, 18 ∗ 9, hyalina.

FUNGI ITALICI autographice delineati a prof. P. A. SACCARDO. Patavii 1878.–Fascicoli V.–VIII. sistentes tab. 161–320.

COMMENTARIUM

Cfr. «Michelia» I. p. 73).

Obs. Numeri progressionem tabularum indicant.

161. **Anthostoma alpigenum** (Fckl.) Sacc. Fung. Ven. nov. v. crit. ser. IV. 18. Mycotheca Ven. n. 238.

162. **Anthostoma Xylostei** (Pers.) Sacc. Mycoth. Ven. n. 227. Fungi Ven. ser. IV. 18. – *Obs.* Hæc species et præcedens inter genera Anthostoma & Anthotomellam ambigunt.

163. **Anthostoma Schmidtii** (Awd.) Nke. Sacc. F. V. ser. IV. p. 18. Mycoth. Ven. n. 225.

164. **Anthostoma Schmidtii** (Awd.) Nke. ***A. melanotes** (B. et Br. sub Sphæria).

Hab. in ramis decorticatis, rarius corticatis Rhamni cathartici & Fraxini Orni *a Selva*, Aut. 1873.

Obs. A forma typica præcipue differt ascis brevioribus crassioribus, 70–80 ✶ $6^1/_2$, sporidiisque crassioribus, 12–14 ✶ 5–6, pariter fuligineis.

165. **Anthostoma italicum** Sacc. et Sp. Stromate superficiale hinc inde varie effuso, nigricante; peritheciis gregariis cauli decorticato immerso–prominulis, globoso-depressis, $^1/_3$–$^1/_2$ mill. diam., papillulatis, nigris; ascis cylindraceis, 80–100 ✶ 8–10, breve stipitatis, apice obtusis, lumineque sub–trifoveolato, paraphysibus filiformibus obvallatis, octosporis; sporidiis ovato–oblongis, 25 ✶ 7–8, curvulis, 2–(raro 1–) guttulatis, utrinque brevissime hyalino–apiculatis, fuligineis.

Hab. in caulibus herbarum majorum putrescentibus *a Conegliano,* Febr. 1877.

166. **Anthostoma urophorum** Sacc. et Sp. Stromate superficiale in lignum breve penetrante, albicante, perithecia singula v. pauca ambiente, subcirculare, minuto; peritheciis ligno immersis, globulosis, $^3/_4$ mill. diam. nigris, ostiolo breve papillato parum emergente; ascis cylindraceis, 100–110 ⨯ 8, breve stipitatis, apice, lumine integro, obtusis, paraphysibus guttulatis obvallatis, octosporis; sporidiis oblongo-ovoideis, 15–22 ⨯ 5–6 $^1/_2$, utrinque acutiusculis, 2-guttulatis, fuligineis, basi apiculo hyalino, raro sub-lobulato auctis.

Hab. in ligno decorticato (Ulmi?) putrescente *a Conegliano* vere, 1877, rarissime.

167. **Anthostoma decipiens** (DC.) Nke, Sacc. Mycol. Ven. Specimen pag. 142.

Obs. Nascitur, præterquam in Carpino, et in Acere campestri.

168. **Anthostoma turgidum** (Pers.) Nke, Sacc. Fungi Ven. Ser. IV. 18.

Obs. Asci cylindrici, breve stipitati, apice obtusi, 100–115 ⨯ 6–7, paraphysibus guttulatis obvallati, octospori. Sporidia longo-ellipsoidea, utrinque rotundata, 10–12 ⨯ 6–7, fuliginea.

169. **Anthostoma gastrinum** (Fr.) Sacc. Mycol. Ven. Spec. 143 et Fungi Ven. Ser. IV. 18.

Obs. Asci 85–100 ⨯ 5; sporidia 10–12 ⨯ 4 $^1/_2$–5 in utraque forma.

A. forma Ulmi campestris (*Treviso, Padova*).
B. forma Carpini Betuli (*Padova*).

170. **Anthostoma gastrinum** (Fr.) Sacc. A. forma **Rhamni cathartici** (*Selva*) – B. forma **Quercus pedunculatæ** (*Montello*).

Obs. In forma A: asci 130 ⨯ 5; sporidia 14–15 ⨯ 5. In forma B: asci 110 ⨯ 5; sporidia 8–9 ⨯ 4.

171. **Anthostoma tæniosporum** Sacc. Mycol. Ven. Spec. 143, tab. XIV. f. 47–51.

172. **Anthostomella intermedia** Sacc. *Anthostoma intermedium* Sacc. Fungi Ven. Ser. IV p. 18, vix Nke.

Peritheciis gregariis, cortice nidulantibus, globosis $^1/_2$ mill. diam., breve papillatis, epidermidem denique perforantibus, parum nigrificantibus; ascis cylindraceis breve stipitatis, apice rotundatis, 70–80 ✶ 6, paraphysibus filiformibus guttulatis obvallatis, octosporis; sporidiis ovato–oblongis, 12–14 ✶ 5, quandoque curvulis, minute 2–3-guttulatis, fuligineis.

Hab. in ramis corticatis putrescentibus Salicis vitellinæ *a Selva,* Aut. 1873.

173. **Anthostomella delitescens** (DNtrs.) Sacc. *Sphæria delitescens* DNtrs. Microm. ital. Dec. VIII. n. 9.
*A. **nobilis** Sacc. & Sp.

Hab. in ramis corticatis Lauri nobilis putrescentibus, a Conegliano, Nov. 1876.

Obs. Asci cylindracei, breve stipitati, p. s. 90 ✶ 8, octospori, paraphysibus filiformibus guttulatis obvallati; sporidia oblongo–ovoidea, 15–16 ✶ 6–7. Perithecia stromate vix ullo excepta, globosa, papillulata, $^1/_3$–$^1/_2$ mill. diam.

174. **Anthostomella appendiculosa** (B. et Br.) Sacc. M. V. n. 1190. Michelia II. 244.

175. **Anthostomella Unedonis** (DNtrs) Sacc. *Sphæria Unedonis* DNtrs. Microm. ital. Dec. X. n. b.

Hab. in truncis corticatis emortuis Arbuti Unedonis *a Genova allo Scoglietto* (herb. DNtrs).

Obs. Asci crasse cylindracei, apice obtusi, 150 ✶ 12–14, stipite 25 micr. lgo, paraphysibus filiformibus guttulatis asco longioribus obvallati, octospori. Sporidia oblonga utrinque rotundata, 25 ✶ 12, recta, 1-guttulata, fuliginea, initio strato hyalino exiguo cincta. Perithecia valde compressa.

176. **Anthostomella Olearum** Sacc. & Sp., Michelia I. 25.

177. **Anthostomella rostrispora** (Ger.) Sacc., Michelia I. 25.

178. **Anthostomella italica** Sacc. & Sp. Peritheciis gregariis foliorum parenchymate immersis, epidermide vix perforata et circum circa breve nigrificata velatis, globoso–depressis, $^1/_5$ mill. diam., brevissime papillatis;

ascis cylindraceis, breve stipitatis, 80–90 ≈ 10, paraphysibus (spuriis?) crassiusculis, pluriguttulatis, obvallatis, octosporis; sporidiis oblique monostichis, obovatis, curvulis, 18–22 ≈ 6–7, 2–guttatis, fuligineis, cauda hyalina $1^1/_2$–2 obtusiuscula basi auctis.

Hab. in foliis putrescentibus Sacchari stricti nostratis, nec non Bambusæ cultæ *a Susegana,* Aut. 1877.

179. **Apiospora Punctum** Sacc. & Sp. Mycoth. Ven. n. 1268. Peritheciis gregariis, distinctis, foliorum parenchymate immersis, epidermide circum circa brevissime nigrificata velatis, breve obtuse papillulatis; contextu perithecii parenchymatico fuligineo; ascis cylindraceo-clavatis, 80 ≈ 18, breve oblique stipitatis, apice rotundatis, lumine apice paulum coarctato, paraphysibus filiformibus guttulatis, obvallatis, octosporis: sporidiis oblique monostichis v. distichis, oblongo–clavatis, deorsum attenuato–curvulis, prope basim (spurie?) 1–septatis, inæqualiter 2–nucleatis, hyalinis.

Hab. in foliis putrescentibus Moliniæ et Dactylis *a Conegliano,* Majo 1877.

Obs. Ab *Ap. Striola* (Pass.) peritheciis subsolitariis, nec stromate lineari–connexis, sporidiis crassioribus etc. differt.

180. **Apiospora Striola** (Pass.) Sacc. Fungi Ven. Ser. II. 305. Mycoth. Ven. n. 907.

181. **Lisea nemorosa** Sacc. Michelia I. 42.

182.? **Physalospora Corni** Sacc. *Botryosphæria Corni* Sacc. Fungi Ven. Ser. IV. 4 (non *Sphæria Corni* Sow.). Peritheciis cortice nidulantibus, gregariis epidermide pustulatim tumidula, denique disrupta, velatis, globulosis, $^1/_3$–$^1/_2$ mill., papillatis, nigris; ascis cylindraceo-clavatis 70–80 ≈ 12, deorsum attenuatis, apice rotundatis, paraphysibus filiformibus guttulatis obvallatis, octosporis; sporidiis oblique monostichis v. distichis, oblongis v. subfusoideis, utrinque obtusiusculis, 18 ≈ 5, curvulis, 1–2–guttatis, hyalinis.

Hab. in ramulis Corni sanguineæ putrescentibus *a Selva* Sept. 1873, raro.

Obs. A *Sph. Corni* Sow. sec. descrip. Cook. & Curr. &c omnino diversa est.

183. **Ceratostoma graphioides** Sacc. Michelia II, 246. Mycoth. Ven. n. 1264.

184. **Ceratostoma Jani-collinum** Sacc. & Sp. Michelia II. 246.

185. **Ceratostoma Notarisii** Sacc. Fungi Ven. Ser. II. 308.

186. **Ceratostoma caulicola** Fckl. ***C. culmicola** Sacc. Fungi Ven. Ser. V. 175.

187. **Ceriospora Dubyi** Niessl, Sacc. Michelia I. 36.

188. **Ceriospora xantha** Sacc. Michelia I. 36.

189. **Clypeosphæria Notarisii** Fckl. f. *Castaneæ vescæ* Sacc. Michelia I. 39.

190. **Chætosphæria parvula** Sacc. Fungi Ven. Ser. IV. 3.

191. **Chætosphæria fusca** Fckl., Sacc. Fungi Ven. Ser. IV. pag. 3.

192. **Cladotrichum polysporum** Cda. Sacc. Mycoth. Ven. n. 659. Status conid. *Chætosphæriæ fuscæ* Fckl.

193. **Calonectria Massariæ** (Pass.) Sacc. Michelia II. 251 n. 46 ex errore sub *Calonectriæ pyrrochloræ* nom., quæ contra *Thyronectriæ* species est, valde affinis *Thyronectriæ Patarinæ* Sacc. Fung. ital. tab. 153.

Hab. in ostiolis Massariæ inquinantis ad ramulos Aceris campestris, *a Conegliano*, Martio 1877.

194. **Calolectria minuscula** Sacc. & Sp. Michelia II. 251.

195. **Calonectria ochraceo-pallida** (B & Br.) Sacc. Fungi Ven. Ser. IV. p. 23.

196. **Calonectria Bloxami** (B. & Br.) Sacc. Fungi Ven. Ser. IV. p. 23.

197. **Calonectria macrospora** Sacc. & Sp. Michelia II. 251.

198. **Cesatiella australis** Sacc. & Sp. Michelia II. 250.

199. **Nectriella Rousseliana** (Mtgn.) Sacc. Michelia I. pag. 51.

200. **Hyponectria Buxi.** (DC.) Sacc. Michelia II. 250.

201. **Caryospora putaminum** (Schw.) DNtrs, Sacc. Fungi Veneti Ser. III. pag. 8.

202. **Caryospora callicarpa** (Curr.) Nke, Sacc. Fungi Ven. Ser. III. pag. 8.

203. **Caryospora Lichenopsis** (Mass.) Sacc. Fungi Ven. Ser. V. 178. Mycoth. Ven. n. 684.

204. **Caryospora Olearum** (Cast.) Sacc. Fungi Ven. Ser. III. 8. Mycotheca Ven. n. 1271.

205. **Ditopella Vizeana** Sacc. & Sp. Michelia II. 248. *Nectria caulina* Cooke F. Brit. ser. II. n. 479.

206. **Ditopella fusispora** DNtrs., Sacc. Michelia I. 31.

207. **Didymosphæria Cadubriæ** Sacc. Fungi Ven. Ser. II. pag. 324.

208. **Didymosphæria conoidea** Niessl Neue Kernp. I. 202. Cfr. Sacc. Fung. Ven. Ser, II. 314. Obs. II.

209. **Dothidea Hippophaëos** (Pass.) Fckl. Symb. Mycol. app. II. 40. *D. Sambuci* f. *Hippophaëos* Pass. in Erb. critt. ital. Ser. II. n. 98.

Hab. in ramulis Hipp. rhamnoidis *a Parma*, Apr. (Passerini) — *Obs*. Asci cylindraceo-clavati, deorsum breve attenuati, apice rotundati, 90–100 ✶ 14, octospori. Sporidia fusoideo-clavulata, 25 ✶ 6–7, constricto-1-septata, hyalina.

210. **Dothidea Berberidis** (Wahlbg.) Fr., Sacc. Mycoth. Ven. n. 235 et Fungi Ven. Ser. V. 182. – *Obs.* Asci clavati, 60 ✶ 12, paraphysati, octospori; sporidia subrhombea, constricto-1-septata, 15–17 ✶ 6, raro 18 ✶ 7, quandoque curvula, hyalina.

211. **Dothidea insculpta** Wallr., Sacc. Myc. Ven. n. 649. Fungi Ven. Ser. V. 183. – *Obs.* Asci cylindracei brevissime attenuato-stipitati, 80–90 ✶ 12, 8-spori; sporidia disticha, fusoidea, sæpe curvula utrinque attenuata, 18–20 ✶ 4, leniter constricta, 1-septata, 4-guttulata, hyalina.

212. **Dothidea Sambuci** (Pers.) Fr. f. **moricola** Erb. critt. ital. n. 784., Sacc. Fungi Ven. Ser. V. 182.

213. **Dothidea Mezerei** Fr., Sacc. Mycoth. Ven. n. 647. non Mycol. Venet. Specimen p. 146 t. XIV. f. 61–62. quæ, præeunte clariss. Doct. Rehm. ad *Melanothecam*

arthonioidem Mass. pertinet – *Obs.* Asci cylindraceo-clavati, 60–75 × 12, apice obtusi, deorsum attenuati, paraphysibus crassis (spuriis?) obvallati, octospori. Sporidia fusoidea, leniter curva, 19–20 × 5, constricto-1-septata, hyalina, loculo superiore paulo crassiore; rarissime loculo uno alterove bipartito.

214. **Dothidea ribesia** (Pers.) Fr., Sacc. F. Ven. Ser. V. 182. – *Obs.* Asci cylindracei 70–80 × 12, aparaphysati, brevissime stipitati, octospori. Sporidia disticha, clavata, recta 1-septata, vix constricta 18 × 4, hyalina.

215. **Dothidea Sambuci** (Pers.) Fr. ***D. Venziana** Sacc. Fungi Ven. Ser. V. 183.

216. **Dothidea tetraspora** B. & Br., Sacc. F. Ven. Ser. V. 182, et Michelia I. 53.

217. **Lasiosphæria minuta** Fckl., Sacc. Fung. Ven. Ser. II. 327.

218. **Lasiosphæria ambigua** Sacc. Michelia I. 46.

219. **Linospora Carpini** Schröt., Sacc. Michelia I. 45. Mycoth. Ven. n. 911.

220. **Linospora Magnagutiana** Sacc. Michelia II. 45.

221. **Lophiostoma hygrophilum** Sacc. Fungi Ven. Ser. III. p. 3.

222. **Lophiostoma quadrinucleatum** Karst., Sacc. Fungi Ven. Ser. III. 4.

223. **Lophiostoma Niessleanum** Sacc. Fungi Ven. Ser. III. pag. 3.

224. **Lophiostoma dumeti** Sacc. Fungi Ven. Ser. III. pag. 3.

225. **Lophiostoma intermedium** Sacc. sp. nov. Peritheciis cortice nidulantibus, lignoque insculptis, gregariis, globulosis, diam. $^1/_3$ mill., ostiolo emergente compresso, truncato; ascis clavatis breve stipitatis, 80 × 12, paraphysibus filiformibus obvallatis, octosporis: sporidiis oblique monostichis v. distichis, fusoideis, curvatis, 30–32 × $4^1/_2$–5, 7-septatis, loculo intermedio paulo crassiore, 8-guttulatis, olivaceis, utrinque apiculo acuto hyalino auctis.

Hab. in caulibus putrescentibus Labiatarum ma-

jorum, e g. Salviæ glutinosæ in sylva *Montello*, Sept. 1873.

Obs. Loph. insidioso (Dmz.), *L. Niessleano* Sacc. et *L. caulium* (Fr.) affine, sed a primo sporidiis 7-septatis, ab altero sporidiis multo angustioribus, noduliferis, a postremo sporidiis apiculatis facile dignoscitur.

226. **Lophiostoma insidiosum** (Dmz.) Ces. & DNtrs, Sacc. Fungi Veneti novi v. critici Ser. III. p. 23. (forma XI).

227. **Lophiostoma simillimum** Karst. Myc. Fenn. II. 84. Sacc. Fungi Veneti Ser. III. p. 4. — *Obs.* Asci clavati breve stipitati, 90 ⋇ 14 paraphysati, octospori; sporidia fusoidea, curvula, 30 ⋇ 7–8, 5–septata, ad septa leniter constricta, 6–guttulata, fuliginea, utrinque apiculo hyalino 5–6 micr. lgo aucta.

228. **Lophiostoma perversum** DNtrs, Sacc. Fungi Ven. Ser. III p. 4.

Obs. Perithecia ligno superficie denigrato immersa globosa $^1/_3$ mill., ostiolo compresso, truncato, latiusculo. Asci clavati, breve stipitati, paraphysati, 80 ⋇ 12 14, octospori; sporidia cylindracea, utrinque breve attenuata, 25–28 ⋇ 4 $^1/_2$–5, curvula, 5–septata, ad septa leniter constricta, fuliginea.

229. **Lophiostoma curtum** (Fr.) DNtrs Schema Sfer. ital. in Comment. crittog. I. p. 219.

Hab. ad ligna putrescentia *a Maccarese* prope Romam, 1874. (C. Bagnis).

Obs. Asci cylindrici, brevissime stipitati, 120–130 ⋇ 12, paraphysati, octospori; sporidia fusoideo-biconica, 28–30 ⋇ 10–12, 7–9-septato-muriformia, ad septum medium constricta, fuliginea.

230. **Lophiostoma gregarium** Fckl., Sacc. Fungi Ven. Ser. V. 177.

231. **Lophiostoma pachysporum** Sacc. Michelia II 249. Mycoth. Ven. n. 1157 (In tabula epitheton « *brachysporum* » pro « *pachysporum* » ex errore calami inscriptum est).

232. **Lophiostoma nobile** Sacc. sp. nova. Peritheciis

gregariis cortice nidulantibus, globosis, $^1/_2$-$^3/_4$ mill. diam., nigris; ostiolo compresso truncato integro, emergente; ascis cylindraceo-clavatis breve stipitatis, p. sporif., 70–80 ✶ 15, paraphysatis, octosporis; sporidiis oblique monostichis v. distichis, oblongo-fusoideis, 20–25 ✶ 8–9, quandoque curvulis, 7-septato-muriforbus, ad septa leniter constrictis, fuligineis.

Hab. in ramis corticatis Lauri nobilis *a Vittorio*, Oct. 1877, raro.

Obs. Affine *Lophiostomati compresso* (P.) DNtrs (Sacc. F. ital. tab. 233) a quo sporidiis constanter 7-septatis differt.

233. **Lophiostoma compressum** (Pers.) DNtrs Sacc. Mycol. Ven. Spec. p. 210. – *Obs.* Asci clavati, breve stipitati, 110–115 ✶ 16–18, paraphysati octospori; sporidia disticha oblonga fusoidea, sæpe curvula, 25 ✶ 10, 5-septato-muriformia, fuliginea.

234. **Lophiostoma compressum** (Pers.) DNtrs ***L. pseudomacrostomum** Sacc., Spegazz. Ampelom. ital. n. 31. *L. macrostomum* Plur. auct.–*Obs.* Asci cylindraceo-clavati, breve stipitati, 110–115 ✶ 14, paraphysati, octospori; sporidia disticha v. oblique monosticha, fusoidea, 28–30 ✶ 8–10, recta v. curvula, 5-septata, 6-guttulata, fuliginea (rarissime septo unico longitudinali).

235. **Lophiostoma macrostomum** (Tode) Ces. & DNtrs, Fckl. Symb. 157–Cooke Hndb. n. 2537, non Plur. auctor. – *Obs.* Asci cylindraceo-clavati, 90 – 110 ✶ 15-18, breve stipitati, paraphysati, octospori; sporidia inordinate disticha, fusoidea utrinque attenuata, sæpe curvula, 6-locularia, 6-guttulata, fuliginea, loculis extimis pallidioribus.

236. **Lophiostoma macrostomoides** DNtrs, Sacc. Fungi Ven. Ser. III. 4. Asci cylindracei, apice obtusi, basi breve attenuati, paraphysati, octospori; sporidia disticha, oblongo-cylindracea, utrinque rotundata, 5-septata, 6-nucleata, dilute fuliginea.

237. **Lophiostoma quadrinucleatum** Karst. ***L. rhopaloides** Sacc. Michelia, I. 43.

238. **Lophiostoma angustilabrum** B. & Br., Sacc. Mycol. Ven. Spec. 110.

239. **Lophiostoma vicinum** Sacc. Michelia I. 44.

240. **Lophiostoma vicinellum** Sacc. nov. spec. Peritheciis gregariis ligno immersis, majusculis, $^2/_3$–$^3/_4$ mill. diam., nigris, globosis, ostiolo compresso obtuso, emergente, integro; ascis clavato-cylindraceis, deorsum attenuatis, apice obtusis, paraphysibus filiformibus obvallatis octosporis; sporidiis distichis fusoideis, utrinque attenuatis minuteque appendiculatis, curvis, constricto-1-septatis, minute varie guttulatis, fuligineis (rarissime loculis spurie 1-septatis).

Hab. in ligno abietino putrescente *a Gratz* (Styria). Oct. 1873. Ex herb. P. Magnus.

241. **Lophiostoma excipuliforme** (Fr.) DNtrs, Sacc. Michelia I. 43.

242. **Lophiostoma Balsamianum** DNtrs, Sacc. Mycol. Venetæ Specimen p. 110., Mycoth. Ven. n. 778 et 1156.

243. **Lophiostoma subcorticale** Fckl, Sacc. Fungi Ven. Ser. III. p. 4.–*Obs.* Asci clavati, paraphysati, octospori, 110 ∗ 14, p. sporif. 90 lg. Sporidia disticha elongato-fusoidea curva, constricto-1-septata, 6-guttulata, hyalina, 35–40 ∗ 7. Rarissime extra ascum occurrunt sporidia fuscidula 3–4-septata, sed talia senio potius quam maturitate evadere censeo, et tunc abnormia habenda.

244. **Lophiostoma subcorticale** Fckl. ***L. viticola** Sacc. Peritheciis gregariis, globosis, $^3/_4$ mill. diam., ligno immersis, ostiolo compresso, truncato, emergente; ascis clavatis, paraphysatis, 120 ∗ 13–15, octosporis; sporidiis distichis, fusoideo-biconicis, curvulis, 28–32 ∗ 7–8, constricto-1-septatis, 4-guttulatis, hyalinis (rarissime [senio?] dilute fuligineis, 3-septatis).

Hab. in ligno decorticato Vitis viniferæ *a Padova*, Apr. 1875.

245. **Lophiostoma semiliberum** (Dmz.) Ces. & DNtrs, Sacc. Mycol. Ven. Specimen p. 111., Mycoth. Ven. n. 678.

246. **Lophiostoma vagabundum** Sacc. Fungi Ven. Ser. III. p. 2. Mycoth. Ven. n. 921.

247. **Lophiostoma pygmæum** Sacc. Fung. Ven. Ser. III. pag. 2.

248. **Lophiostoma alpigenum** Fckl., Sacc. Fungi Ven. Ser. III. p. 4. et Mycol. Ven. Specim. p. 111.

249. **Lophiostoma Nucula** (Fr.) Ces. & DNtrs., Sacc. Mycol. Ven. Specim. 111. – *Obs.* Asci crasse cylindracei, 100 ⁎ 15–17, apice rotundati, deorsum breve attenuati, paraphysati, octospori; sporidia disticha cylindracea, utrinque obtuse attenuata, curvula, 24–30 ⁎ 7–9, 4–nucleata, 3-septata, hyalina.

250. **Lophiostoma auctum** Sacc. Mycol. Ven. Specimen p. 110. Fungi Ven. Novi Ser. III. p. 4.

251. **Lophiostoma anaxæum** Sacc. Fungi Ven. Ser. III. p. 1.

252. **Lophiostoma perpusillum** Sacc. Michelia 1. p. 43.

253. **Lophiostoma præmorsum** (Lasch) Fckl., Sacc. Mycol. Ven. Specimen 111. *L. Jerdoni* B. & Br., Cooke Hndb. 851.

254. **Lophiostoma Fuckelii** Sacc. *L. diminuens* Fckl Symb. Mycol. p. 156. Sacc. Fungi Ven. Ser. III. 4, non Fr. (sec. DNtrs), an Persoon? – *Obs.* Asci clavati, breve stipitati, paraphysati, octospori, 55–60 ⁎ 8; sporidia disticha v. oblique monosticha, fusoideo–biconica, curvula, 4–guttulata, hyalina utrinque apiculis acutis ornata.

255. **Lophiostoma pulveraceum** Sacc. nov. spec. Peritheciis gregariis ligno penitus v. semi-immersis, globulosis, $^1/_4$–$^1/_5$ mill. ostiolo compresso, truncato, emergente; ascis clavatis brevissime stipitatis, 80 ⁎ 10–12, apice rotundatis, paraphysibus filiformibus obvallatis, octosporis; sporidiis distichis, fusoideo–biconicis 18–20 ⁎ 4 $^1/_2$–5 curvulis, constricto–1–septatis, 4–guttulatis, hyalinis, utrinque appendiculis brevibus, acutis præditis.

Hab. in ligno quercino putrescente *a Selva*, Aug. 1876.

256. **Lophiostoma duplex** Karst. Mycol. Fenn. II. 86. *Hab.* in ramis decorticatis Coryli et Rhamni cathartici *a Conegliano,* vere 1877 – *Obs.* Asci cylindracei breve stipitati, paraphysati, 120 ✻ 9–10, octospori; sporidia fusoidea, curvula, 4-guttulata, dein 3-septata, 22–25 ✻ 4–5 $^1/_2$, hyalina.

Generis *Lophiostomatis* species, etsi inter se habitu externo exacte conveniant, sporidiis, ut notum est, inter se ita variis utuntur, ut (ad ceterorum pyrenomycetum delimitationis normam) in nonnulla genera merito dividi posse videantur. Tunc *Lophiostomati* generi dignitas familiæ jure meritoque tribuenda esset. Ecce novæ familiæ dispositionis tentamen.

Lophiostomaceæ Sacc. (nec Fckl.)

Perithecia carbonacea v. membranaceo–carbonacea, nigra, ostiolo compresso, rimose dehiscente.

Sect. 1. **Phæosporæ** Sacc.

Sporidia continua, ovoidea v. navicularia, fusca.

1. **Lophiella** Sacc.

Perithecia Lophiostomatis. Asci octospori. Sporidia navicularia, fusca.

L. cristata (Pers.) Sacc. Sphæria cristata Pers. Lophium cristatum Crouan Finist. p. 29.

Sect. 2. **Didymosporæ** Sacc.

Sporidia bilocularia, ovoidea v. oblonga, fusca.

2. **Schizostoma** Ces. etc. DNtrs (charact. sectionis).

S. Montagnei Ces. & DNtrs. Sphæria schizostoma Mtgn. Syll. Cryptag. p. 231.
S. montellicum Sacc. Cfr. Sacc. F. ital. n. 146.
S. vicinum Sacc. Cfr. Sacc. F. ital. n. 239.
S. vicinellum Sacc. Cfr. Sacc. F. ital. n. 240.

S. pachythele (B. & Br.) Sacc. Sphæria pachythele B. & Br. Ceyl. F. n. 1109.

Sect. 3. **Phragmosporæ** Sacc.

Sporidia oblonga v. fusoidea, 2-pluriseptata.

A. **Hyalophragmiæ**: sporidiis hyalinis.

3. **Lophiotrema** Sacc. (charact. sectionis).

* **Sporidia mutica.**

L. alpigenum (Fckl) Cfr. Sacc. F. ital. n. 248.
L. Thuemenianum (Speg.) Cfr. Speg. Ampel. ital. n. 33.
L. pygmæum Sacc. Cfr. Sacc. F. ital. n. 247.
L. sexnucleatum (Cooke) Cfr. Cooke Hndb. p. 850.
L. crenatum (Fr.) Cfr. Karst. Fenn. II. 86.
L. semiliberum (Dmz.) Cfr. Sacc. F. ital. n. 245.
L. vagabundum Sacc. Cfr. Sacc. F. ital. n. 246.
L. subcorticale (Fckl.) Cfr. Sacc. F. ital. n. 243.
L. viticola Sacc. Cfr. Sacc. F. ital. n. 244.
L. Nucula (Fr.) Cfr. Sacc. F. ital. n. 249.
L. duplex (Karst.) Cfr. Sacc. F. ital. n. 256.
L. Hederæ (Fckl.) Cfr. Fckl. Symb. mycol. 157.
L. myriocarpum (Fckl.) Cfr. Fckl. Symb. mycol. 156.
L. pusillum (Fckl.) Cfr. Fckl. Symb. mycol. App. II. p. 29.
L. Sedi (Fckl.) Cfr. Fckl. Symb. mycol. 155.
L. perpusillum Sacc. Cfr. Sacc. F. ital. n. 252.
L. nuculinum Rehm. Augsb. Pilzfl. p. 80 sub *Lophiost.*

** **Sporidia appendiculata.**

L. auctum Sacc. Cfr. Sacc. F. ital. n. 250.
L. Anaxæum Sacc. Cfr. Sacc. F. ital. n. 251.
L. præmorsum (Lasch) Cfr. Sacc. F. ital. n. 253.
L. Fuckelii Sacc. Cfr. Sacc. F. ital. n. 254.
L. pulveraceum Sacc. Cfr. Sacc. F. ital. n. 255.
L. angustilabrum (B. & Br.) Cfr. Sacc. F. ital. n. 238.

Obs. L. subcorticale, L. viticola, L. vagabundum, L. angustilabrum præbent rarissime sporidia nonnulla (extra ascos) dilute fuliginea,

sed talia, ut monui, senio potius quam maturitate provenire videntur, et tunc abnormia.

B. **Phæophragmiæ**: sporidiis fuscis.

4. **Lophiostoma** Ces. et DNtrs. (s. strictiore).

* **Sporidia mutica.**

L. *Crista-Galli* DR. Mtgn. Cfr. Mtgn. Syll. p. 231.
L. *microstomum* Cooke & Ellis (non Niesslii, quod = L. caulium [Fr.]) Cfr. Grevill. IV. 176.
L. *perversum* DNtrs. Cfr. Sacc. F. ital. n. 228.
L. *macrostomum* (Tode) Ces. & DNtrs. Cfr. Sacc. F. ital. n. 235.
L. *macrostomoides* DNtrs. Cfr. Sacc. F. ital. n. 236.
L. *excipuliforme* (Fr.) DNtrs. Cfr. Sacc. F. ital. n. 241.
L. *Balsamianum* DNtrs. Cfr. Sacc. F. ital. n. 242.
L. *dolabriforme* DNtrs. Cfr. DNtrs. Sfer. ital. n. 69. Lophium Notarisii *Crouan*.
L. *pileatum* (Tode) Fckl. Cfr. Fckl. Symb. mycol. 158.
L. *quadrinucleatum* Karst. Cfr. Sacc. F. ital. n. 222.
L. *rhopaloides* Sacc. Cfr. Sacc. F. ital. n. 237.
L. *dumeti* Sacc. Cfr. Sacc. F. ital. n. 224.
L. *insculptum* Rehm Ascom. n. 289.
L. *pseudomacrostomum* Sacc. Cfr. Sacc. F. ital. n. 234.
L. *caulium* (Fr.) Ces. & DNtrs. Cfr. Niessl in Hedw. 1875. p. 21-24.
L. *mendax* DNtrs. Cfr. Schema Piren. Sfer. p. 219.
L. *Arundinis* (Fr.) Ces. & DNtrs. Schema Sfer. p. 220.
L. *viridarium* Cooke Hndb. p. 849.
L. *fibritectum* Berk. Cfr. Cooke Hndb. p. 850.
L. *Ruborum* Crouan Finist. p. 29.
L. *cespitosum* Fckl. Symb. mycol. App. II. p. 29.
L. *absconditum* Pass. in Nuovo Giorn. bot. ital. VII. p. 257.
L. *rhizophilum* (B. & C.) Sacc. Cfr. Grevill. IV. 143.
L. *Pinastri* Niessl Notiz üb. Pyrenom. p. 49. t. IV. f. 24.
L. *granulosum* Crouan Finist. p. 29.

** **Sporidia appendiculata.**

L. *insidiosum* (Dmz.) Ces. & DNtrs Cfr. Sacc. F. ital. n. 226.
L. *Menthæ* Kirchn. in Thüm. F. Austr. 1153 Cfr. et Fungi novi austr. p. 3.
L. *Niessleanum* Sacc. Cfr. Sacc. F. ital. n. 223.
L. *intermedium* Sacc. Cfr. Sacc. F. ital. n. 225.
L. *simillimum* Karst. Cfr. Sacc. F. ital. n. 227.
L. *bicuspidatum* Cooke Hndb. p. 848.

Sect. 4. **Dictyosporæ** Sacc.

Sporidia ovoidea v. oblonga, pluriseptato–muriformia, fusca.

5. **Lophidium** Sacc. (Charact. section.)

L. *hygrophilum* Sacc. Cfr. Sacc. F. ital. n. 221.
L. *curtum* (Fr.) Cfr. Sacc. F. ital. n. 229.
L. *gregarium* Fckl. Cfr. Sacc. F. ital. n. 230.
L. *fenestrale* (Cke & Ell.) Cfr. Grevill. 1877 pag. 12.
L. *pachysporum* Sacc. Cfr. Sacc. F. ital. n. 231.
L. *nobile* Sacc. Cfr. Sacc. F. ital. n. 232.
L. *compressum* (Pers.) Ces. & DNtrs. Cf. Sacc. F. ital. n. 233.
L. *diminuens* (Pers.) Ces. & DNtrs. Cfr. Schema Sfer. ital., non Fckl.
L. *ramorum* (Fckl.) Cfr. Fckl. Symb. 158.
L. *fraudolentum* DR. & Mtgn. Cfr. Mtgn. Syll. p. 231.
L. *psilogrammum* DR. & Mtgn. Cfr, Mtgn. Syll. p. 231.
L. *graphidosporum* (Anzi) Cfr. Anzi Analecta Lich. p. 27.

257. **Leptosphæria Aegira** Sacc. & Sp. Michelia I. pag. 153.

258. **Leptosphæria dryadea** Sacc. Fungi Ven. Ser. II. pag. 311.

259. **Leptosphæria Alcides** Sacc. Fungi Ven. Ser. V. pag. 176.

260. **Leptosphæria Yulan** Sacc. Fungi Ven. Ser. II pag. 312.
261. **Leptosphæria Lathonia** Sacc. Fungi Ven. Ser. II. p. 310.
262. **Leptosphæria marginalis** Sacc. Michelia II. p. 244. Mycoth. Ven. n. 1162.
263. **Leptosphæria Lucina** Sacc. Fungi Ven. Ser. II. p. 311.
264. **Leptosphæria nobilis** Sacc. Fungi Ven. Ser. II. p. 312.
265. **Leptosphæria Lucilla** Sacc. Fungi Ven. Ser. II. p. 310.
266. **Leptosphæria Pomona** Sacc. Fungi Ven. Ser. V. p. 176.
267. **Leptosphæria Aglaja** Sacc. Fungi Ven. Ser. II. p. 310.
268. **Leptosphæria Camilla** Sacc. Fungi Ven. Ser. II. p. 312.
269. **Leptosphæria carpogena** Sacc. Fungi Ven. Ser. II. p. 313.
270. **Leptosphæria carpophila** Sacc. Fungi Ven. Ser. II. p. 314.
271. **Leptosphæria bryophila** Sacc. Fungi Ven. Ser. II. p. 319.
272. **Leptosphæria Convallariæ** (Fckl.) Sacc. Fungi Ven. Ser. VI in Michelia I. 38.
273. **Leptosphæria hyalospora** Sacc. Fungi Ven. Ser. II. 323.
274. **Leptosphæria grandispora** Sacc. Peritheciis gregariis innate-erumpentibus, globulosis, $^1/_5$ mill. diam., vertice breve papillatis, nigris; ascis clavato-fusoideis apice obtusis basi breve crasso-stipitatis, 90 ≈ 20, paraphysibus filiformibus obvallatis, octosporis; sporidiis distichis, fusoideis, 45 ≈ 8–9, curvulis, utrinque acutiusculis, 9–10–septatis, 10–11–guttulatis, hyalinis.

Hab. in foliis putrescentibus Typhæ latifoliæ a *Colfosco* Sept. 1877, raro.

Obs. A *Leptosph. hyalospora* Sacc., cui affinis, sporidiis fere duplo majoribus recedit.

275. **Leptosphæria Micropogon** Sacc. Fungi Ven. Ser. II. p. 320.

276. **Leptosphæria arundinacea** (Sow.) Sacc. Fungi Ven. Ser. II. p. 320.

277. **Leptosphæria eustomoides** Sacc. Fungi Ven. Ser. II. p. 319.

278. **Leptosphæria amphibola** Sacc. Fungi Ven. Ser. II. p. 322.

279. **Leptosphæria Michotii** (West.) Sacc., *L. biseptata* Awd., *L. trimera* Sacc. Fungi Ven. Ser. II. 319.

280. **Leptosphæria hydrophila** Sacc. Fungi Ven. Ser. II. p. 320.

281. **Leptosphæria scotophila** Sacc. Fungi Ven. Ser. II. p. 317.

282. **Leptosphæria rupicola** Sacc. Fungi Ven. Ser. II. p. 317.

283. **Leptosphæria Aconiti** Sacc. Fungi Ven. Ser. II. p. 315.

284. **Leptosphæria obesa** (Dur. & Mtgn.) Sacc. Michelia I. p. 38.

285. **Leptosphæria spectabilis** Niessl. *L. Penicillus* Sacc. Fungi Ven. Ser. II. p. 316.

286. **Leptosphæria Castagnei** (Dur. & Mtgn.) Sacc. Fungi Ven. Ser. II. p. 317.

287. **Leptosphæria fuscella** (B. & Br.) Ces. & DNtrs, Sacc. Michelia I. 39.

288. **Leptosphæria corticola** (Fckl.) Sacc. *Hab.* in ramulis corticatis L o n i c e r æ C a p r i f o l i i, æst. 1877, *a Conegliano* (Spegazzini).

Obs. Asci cylindrici breve crassiuscule stipitati 90–100 * 8, octospori, paraphysibus nullis (?). Sporidia monosticha ellipsoidea, v. suboblonga, 16–18 * 8, 3-septata, ad septum medium leviter constricta, hyalina.

289. **Leptosphæria Fiedleri** (Niessl) Sacc. Michelia I. pag. 39.

290. **Leptosphæria platycarpa** Sacc. nov. spec. Peritheciis gregariis sublenticularibus, basi applanatis, breve papillatis, $^1/_5$ mill. latis, nigris, cortice nidulantibus, 80 * 10–11, dein suberumpentibus: ascis cylin-

draceo-clavatis, brevissime stipitatis, paraphysibus filiformibus obvallatis, octosporis; sporidiis distichis, oblongis, curvulis, 20 ≈ 6–6 $^1/_2$, utrinque acutiusculis, 3-septatis, ad septa leniter constrictis, minute pluriguttulatis, olivaceis.

Hab. in ramulis Corni sanguineæ putrescentibus, *a Conegliano*, Apr. 1876 (C. Spegazzini).

291. **Leptosphæria modesta** (Dmz.) Awd. (in tabula sub nom. *L. Passerinii* Sacc.), *L. setosa* Niessl Beitr. 28 t. III. f. 20 (ex ipso).

Obs. L. Passerinii mea certe eadem est ac *L. setosa* Niessl., quæ sec. ipsum auctorem est *L. modesta* (Dmz.). Tunc *Lept. modesta* mea (Michelia I. 37) sporidiis exappendiculatis gaudens aliena est. Ad hanc, ad interim, duco *L. Cibostii* Ces. & DNtrs, quæ ex ipsa icone DNtrs sporidia mutica fovens cum *L. modesta* vera conjungi nequit, etsi aliter judicet cl. Niessl.

292. **Leptosphæria rubicunda** Rehm, Sacc. F. Veneti, Ser. II. p. 315.

293. **Melanomma longicolle** Sacc. F. Ven. Ser. III. p. 5.

294. **Melanomma fuscidulum** Sacc. F. Ven. Ser. III. p. 5.

295. **Melanomma hispidulum** Sacc. F. Ven. Ser. III. p. 6.

296. **Melanomma Campi Silii** Sacc. F. Ven. Ser. III. p. 4.

397. **Melanomma Pulviscula** (Curr.) Sacc. Fungi Ven. Ser. III. p. 6.

298. **Melanomma fallax** Sacc. Michelia I. p. 41.

299. **Melanomma ? dubium** Sacc. F. Ven. Ser. III. p. 5.

300. **Melanomma ? macrosporum** Sacc. F. Ven. Ser. III. p. 5.

Species generis *Melanommatis,* utpote quæ sporidiis varie formatis et coloratis donatæ, in sequentia genera aptius disponi possunt.

1. **Melanomma** Nke emend. Sporidia ovata v. oblonga pluriseptata, colorata.

M. Pulvis pyrius (Pers.) Fckl Symb. mycol. 159.
M. Aspegrenii (Fr.) Fckl Symb. mycol. 159.
M. conjugatum DNtrs, sub Sphæria. Sfer. ital. n. 64.
M. obducens DNtrs, sub Sphæria. Sfer. ital. n. 66, nec Fr.
M. Verrucaria DNtrs, sub Sphæria. Sfer. ital. n. 67, an Mtgn.?
M. Epochnii B. & Br., sub Sphæria. Cfr. Cooke Hndb. p. 865.
M. Jenysii B. & Br. sub Sphæria. Cfr. Cke Hndb. p. 870.
M. pœcilostomum B. & Br. sub Sphæria. Cfr. Cke Hndb. p. 870.
M. subsparsum Fckl. Symb. mycol. p. 160.
M. Heufleri Awd. sub Sphæria. Cfr. Hedwig. 1868 p. 183.
M. fuscidulum Sacc. F. ital. tab. 294.
M. longicolle Sacc. F. ital. tab. 293.
M. vile (Fr.) Fckl. Symb. mycol. p. 160
M. fissum Fckl. Symb. mycol. App. II. p. 30.
M. sparsum Fckl. Symb. mycol. App. II. p. 30.
M. Catillus Sacc. Mycol. Ven. Specimen p. 114 t. XI. f. 39–42.
M. Orni DNtrs. sub Sphæria, Microm. ital. Dec. VIII.
M. juniperinum Karst. sub Sphæria, Myc. Fenn. II. 89.
M. lonicerinum Karst. sub Sphæria, Mycol. Fenn. II. 89.
M. sanguinarium Karst. sub Sphæria, Mycol. Fenn. II 90.
M. Holmskjoeldii Karst. sub Sphæria, Mycol. Fenn. II. 91.
M. cinereum Fckl. Symb. mycol. 114, sub Sphæria.
M. disjectum Karst. sub Sphæria, Mycol. Fenn. II. 92.
M, pilosellum Karst. Pyren. novi Fenn. IX. p. 246 Sacc. F. Ven. Ser. III p. 6., Myc. Fenn. II p. 96.
M. hispidulum Sacc. Fungi ital. tab. 295.
M. circumclusum DNtrs sub Sphæria, Sfer. ital. n. 63.

M. Lenarsii West. sub S p h æ r i a, Cfr. Hedwig. V. 173.
M. Rhododendri (Niessl.) Rehm Ascom. 284. C u c u r b i t a r i a R h o d o d e n d r i Niessl. Beitr. p. 50 t. IV f. 32.
M. Rhodomelan Fr. sub S p h æ r i a, S. M. II 445. Cfr. Hedwig. 1869 p. 88.
M. brachytele B. & Br. sub S p h æ r i a. Cfr. Cke. Hndb. p. 871.
M. solutum Cke & Ell. sub S p h æ r i a. Cfr. Grevill. 1876 pag. 54.

*Species vulgo majores, peritheciis remotioribus, basi ligno v. cortice insculptis, ostiolo denique latius hiante (*Trematosphæria* Fckl. p. p. *Lizonia* et *Caryospora* DNtrs p. p.).

M. pertusum Pers. sub S p h æ r i a. Cfr. Cke Hndb.
M. pertusellum Sacc. Fungi Ven. Ser. III p. 7 sub T r e m a t o s p h æ r i a.
M. seminudum Fckl. sub T r e m a t o s p h. Symb. Mycol. p. 162; nec DNtrs (quæ T e i c h o s p o r a) nec Niesslii Herb. (quæ A m p h i s p h æ r i a).
M. porphyrostomum Kze sub S p h æ r i a, Fckl. sub T r e m a t o s p h æ r i a Symb. Mycol. App. I. 306.
M. decipiens DNtrs sub L i z o n i a Recl. Pir. in Comm. crittog. ital. II p. 482.
M. callisporum DNtrs Schema p. 221, sub S p h æ r i a.
M. megalosporum DNtrs Schema p. 221, sub S p h æ r i a.
M. buellioides Rehm in Augsb. Pilztl. p. 78, sub T r e m a t o s p h æ r i a.
M. Lichenopsis Mass. sub S p h æ r i a. C a r y o s p. L i c h e n o p s i s Sacc. F. ital. tab. 203.
M. Olearum Cast. sub S p h æ r i a. – Caryosp. Olearum Sacc. F. ital. tab. 204.
M, *melinum* B. & Br. sub S p h æ r i a, in Rath. Fungi Europæi n. 1835.

2. **Zignoella** Sacc. *) Sporidia ovata v. oblonga pluriseptata. v. pluriguttulata, hyalina. Cetera *Melanommatis*.

Z. rhytidodes B. & Br. sub Sphæria. Cfr. Cke Hndb. pag. 862.
Z. conica Fckl. sub Melanomm., Symb. Mycol. p. 160.
Z. Campi Silii Sacc. Cf. F. ital. tab. 296.
Z. aterrima Fckl. sub Melanomm. Symb. Mycol. App. I. 304.
Z. ordinata Fr. sub Sphæria. Cfr. Cke Hndb. p. 863.
Z. emergens Karst. sub Sphæria, Mycol. Fenn. II. 93.
Z. cariosa Cke & Ellis sub Sphæria, Grevillea 1878 pag. 94.
Z. atriella Cke & Ellis sub Sphæria, Grevillea 1878 pag. 94.
Z. Pulviscula Curr. sub Sphæria, Cfr. Sacc. F. Ven. ser. III. p. 6 & F. ital. tab. 297.
Z. ovoidea Fr. sub Sphæria. Cfr. Fckl. Symb. 159.
Z. collabens Curr. sub Sphæria. Cfr. Cke Hndb. p. 864.
Z. improvisa Karst. sub Sphæria, Mycol. Fenn. II. 93.
Z. pygmæa Karst. sub Sphæria, Mycol. Fenn. II. 93.
Z. pusilla Cke Hndb. p. 889 sub Sphæria — Sphæria seriata Curr. Linn. Transact. XXII. t. 59 f. 121.
Z. diaphana Cke & Ellis sub Sphæria, Grevillea 1876 pag. 53.
Z. papillata Fckl. sub Melanomm., Symb. Mycol. p. 160.
Z.? melanostigma Cke & Ellis sub Sphæria, Grevillea 1877 p. 13.
Z.? dubia Sacc. F. ital. tab. 299, sub Melanommate.
Z.? macrospora Sacc. F. ital. tab. 300, sub Melanommate.

*Species vulgo majores, peritheciis remotioribus, matrice sæpe profundius insculptis, ostiolis distinctius pertusis (*Trematosphæria* Fckl. p. p.).

Z. corticola Fckl. sub Tremat. Symb. mycol. p. 162.
Z. subferruginea Fckl. sub Tremat. Symb. mycol. p. 162.

*) Novum genus clarissimo Amico Lib. Bar. A. de Zigno, geologo scientissimo et de mycologia veneta bene quoque merito dicatum.

Z. cryptarum Fckl. sub Tremat. Symb. mycol. p. 163.
Z. Morthieri Fckl. sub Tremat. Symb. mycol. App. I. 306.
Z. rhodobapha B. & Br. sub Sphæria, Grevillea I. 175.
Z. lichenoides Rehm sub Tremat. Ascom. n. 285.

Obs. Asci cylindracei breviter stipitati, 90 ≈ 10, apice rotundati, paraphysibus filiformibus copiosissimis obvallati, octospori; sporidia monosticha v. p. p. disticha, ovoidea, v. suboblonga, 18 ≈ $6^1/_2 8$, 5–septata, non constricta, hyalina.

Z. excellens Rehm sub Tremat. Ascom. n. 286.

Obs. Asci obclavato–fusoidei, 45 ≈ 10, paraphysibus filiformibus parce obvallati, octospori; sporidia subdisticha, breve fusoidea, 10 ≈ 4, plasmate bi– (quadri–?) partito, hyalina.

Z. corticivora Rehm. sub Tremat. Ascom. n. 382. & Augsb. Pilzfl. p. 77.

Obs. In speciminibus quæ adsunt perithecia fere omnia lophiostomoidea, immo a *Loph. nuculino* Rehm. Augsb. Pilzfl. p. 80 non diversa.

3. **Melanopsamma** Niessl Notiz. über Pyren. p. 40 (nomen) Sporidia didyma, hyalina v. subhyalina. Cetera *Melanommatis*.

M. pomiformis Pers. sub Sphæria, Cfr. Sacc. Michelia I. p. 33 sub Eriosphæria.
M. borealis Karst. sub Sphæria, Mycol. Fenn. II. 94.
M. Pustula Curr. sub Sphæria Linn. Transact. XXII. t. 59 f. 31. S. perexigua Bk., Cke Hndb. p. 863.
M. Rhodomphalos Bk., Curr. Linn. Transact. XXII t. 57 f. 28, sub Sphæria—S. rhodopis Fr. Summa 389 (nomen).
M. latericollis Fr. sub Sphæria, Trematosph. latericollis Fckl. Symb. mycol. App. II p. 31.

301. **Pleospora Collaltina** Sacc. & Sp. *P. Anthyllidis* **Meliloti* Sacc. Michelia I. p. 49. (ubi ex errore matricem ut *Melilotum* habui, quæ contra *Capparis* est.).

302. **Pleospora Spegazziniana** Sacc. Sp. nova Perithe-

ciis gregariis cortice nidulantibus, dein semierumpentibus, globulosis, $^1/_4$ mill. diam. breve papillatis nigris, contextu coriaceo, minute perenchymatico, atro; ascis cylindraceo-clavatis, breve stipitatis, apice rotundatis, 150 ✱ 30, paraphysibus nullis visis; sporidiis inordinate distichis, ovato-oblongis, 38–40 ✱ 20–22 utrinque obtusiusculis, sursum crassioribus, 7-septatis, longitudinaliter, 2-3-seriato-septatis, ad septa, præcipue medium, constrictis, olivaceis.

Hab. in ramulis emortuis Catalpæ syringifoliæ *a Conegliano,* Majo 1876 (C. Spegazzini).

Obs. Præcipue peritheciis coriaceis a *Pl. herbarum* (Pers.) Rbh. facile distinguenda.

303. **Pleospora phæospora** (Duby) Ces. & DNtrs. ***P. Venziana*** Sacc. Fungi Ven. Ser. II. p. 308.

304. **Pleospora pyrenophoroides** Sacc. Fungi Ven. Ser. II. p. 309.

305. **Eriosphæria œnotria** Sacc. & Sp. (ex errore sub *Gibbera*) Speg. Ampelomyc. ital. n. 36. Peritheciis sparsis, globulosis, superficialibus, $^1/_4$–$^1/_5$ mill. diam., obtusiuscule papillatis, pilis rigidulis, septulatis, fuligineis, undique sed laxe vestitis; ascis cylindraceis, apice rotundatis, deorsum crassiuscule breveque stipitatis, paraphysibus filiformibus obvallatis, octosporis; sporidiis monostichis v. subdistichis, oblongo-ellipsoideis, 1-septatis, leniter constrictis, pallide roseo-fuscidulis.

Hab. in cortice emortuo Vitis viniferæ a *Conegliano,* ut videtur, rarius, Aut. 1877 (C. Spegazzini).

Obs. Nonnullis notis cum gen. *Gibbera* convenit, sed multo propius cum gen. *Eriosphæria.*

306. **Trichosphæria nobilis** Sacc. & Sp. Michelia II. pag. 247.

307. **Ohleria rugulosa** Fckl., Sacc. F. Ven. Ser. V. pag. 177.

308. **Teichospora obducens** (Fr.) Fckl., Sacc. Mycol. Ven. Spec. p. 210.

Obs. Asci cylindracei, apice rotundati, basi breve

crassiuscule stipitati, 120–150 ✶ 16, paraphysibus filiformibus obvallati, octospori; sporidia monosticha, ovoidea, 30 ✶ 12–15, 5-septato-muriformia, ad septa leniter constricta, olivascentia.

309. **Teichospora Vitalbæ** (DNtrs) Sacc. F. Ven. Ser. V. pag. 177.

310. **Teichospora anceps** Sacc. Michelia II. 274.

311. **Teichospora trabicola** Fckl., Sacc. Mycol. Ven. Spec. p. 210.

Obs. Asci cylindracei 110 ✶ 10; sporidia, 3-septato-muriformia, 15–16 ✶ 8, olivacea, oblique monosticha.

312. **Teichospora sarmenticia** Sacc. & Sp. sp. nova. Peritheciis erumpenti-superficialibus, laxe gregariis, globoso-depressis, $^{1}/_{2}$ mill. diam., breve obtuse papillatis nigris; ascis cylindraceo-clavatis, apice rotundatis, crassiuscule stipitatis, aparaphysatis (?), octosporis; sporidiis oblique monostichis, ovato-oblongis, utrinque obtusis, 16–18 ✶ 8–9, 5-septato-muriformibus, fuligineis.

Hab. inter fibras corticales sarmentorum putrescentium Clematidis Vitalbæ, Aut. 1876 (Spegazzini).

Obs. Affinis *T. ignari* (DNtrs) a qua præcipue peritheciis majoribus, colore fusco sporidiorum, paraphysibus nullis (?) differt.

313. **Teichospora Mesascium** (DNtrs) Sacc. F. Ven. Ser. III. p. 7.

314. **Teichospora Sylvana** Sacc. & Sp. in Thüm. Pilze d. Weinst. p. 26 (ex errore sub *Amphisphæria*) Peritheciis superficialibus hinc inde gregariis, globulosis, $^{1}/_{5}$–$^{1}/_{4}$ mill. diam. obtuse papillatis; ascis cylindraceo-clavatis apice rotundatis, brevissime stipitatis, paraphysatis, octosporis; sporidiis oblique monostichis v. subdistichis, ellipsoideo-oblongis, 28–35 ✶ 16–20 constricto-didymis, 8-11-septato-muriformibus, initio cribrose guttulatis, fuligineis,

Hab. in trunco emortuo Vitis viniferæ *a Selva.* Aut. 1877. – *Obs.* Sporidia initio bilocularia,

flavicantia, medio constricta, qua nota a *T. Mesascio* præcipue dignoscitur.

315. **Teichospora oxystoma** Sacc. & Sp. nov. spec., Speg. Ampelom. ital. n. 29. Peritheciis laxe gregariis, superficialibus, globulosis, $^1/_3$–$^1/_2$ mill. diam., in ostiolum longiusculum cylindraceo–conicum abeuntibus; ascis cylindricis, 180–200 ✻ 15–16, brevissime stipitatis, paraphysibus filiformibus obvallatis, octosporis; sporidiis monostichis, fusoideis, quandoque subinæquilateralibus, utrinque acutiusculis, 8–10–septato–muriformibus, fuligineis.

Hab. in ligno decorticato indurato ramorum Vitis viniferae, *a Conegliano*, Oct. 1877.

316. **Teichospora ignavis** (DNtrs) Karst., Sacc. Michelia I. 47.

317. **Teichospora patellarioides** Sacc. Michelia I. 47.

318. **Teichospora pezizoides** Sacc. & Sp. in Mycoth. Ven. n. 1270. Peritheciis sparsis v. subgregariis, superficialibus, primo globosis dein collabescendo patellaribus, diam. 250–300 micr. diam., minutissime rugulosis, atris, ostiolo exiguo papillato; contextu perithecii molliusculo, parenchymatico, atro–fuligineo; ascis cylindraceis deorsum breve attenuato–stipitatis basique nodulosis, apice rotundatis, tunica incrassata, 110–115 ✻ 10, paraphysibus filiformibus asco paulo longioribus obvallatis, 8–sporis; sporidiis oblique monostichis oblongo–ellipsoideis, 18–24 ✻ 6–7, utrinque obtusiusculis, 3–septatis, parceque muriformibus, ad septa constrictis, olivaceo–fuligineis, loculis extimis plerumque pallidioribus.

Hab. in cortice duriore Robiniæ Pseudacaciæ, socia *Hendersonia fusarioide* Sacc., Jan. 1878, copiose.

319. **Thyridium Rousselianum** Sacc. & Sp. Michelia I. pag. 49.

320. **Thyridium pulchellum** Sacc. & Sp. Michelia II. 249.

FUNGI VENETI novi v. critici auctore P. A. SACCARDO. Seriei VIII.ae Appendicula.

1. **Sphærella corylaria** (Wallr.) Fckl. Sacc. Mycoth. Ven. n. 1265. *Sphæria corylaria* Wallr. Comp. Crypt. Germ. pag. 770.

Hab. in foliis languidis Coryli Avellanæ *a Padova,* Ianuario 1878 (G. Bizzozero).

Obs. Perithecia nitidula, solidiuscula. Nucleus albidus, corpusculis subovatis, hyalino-farctis (ascis immaturis?) fœtus. Dubia in hoc genere species.

2. **Læstadia Veneta** Sacc. & Sp. Mycoth. Ven. n. 1266. Peritheciis sparsis, foliorum parenchymate immersis, denique epidermidem operculatim dirumpentibus, e globoso lenticularibus, nitidulis, 120-150 micr. diam., atris, ostiolo minutissimo papillulato, contextu dense parenchymatico, fuligineo; ascis late cylindraceis v. cylindraceo-clavatis breve attenuato-stipitatis, 48-55 ≈ 12-13, apice tunica incrassata perforataque rotundatis, aparaphysatis, octosporis; sporidiis distichis v. inordinate tristichis, oblongo-fusoideis, 14-16 ≈ 4-5, anguste limoniiformibus, utrinque obtusiusculis, raro leniter inæquilateralibus, non v. utrinque minute 1-guttulatis, hyalinis.

Hab. in foliis Platani occidentalis dejectis *a Padova,* Febr. 1878 (C. Spegazzini).

3. **Microthyrium Juniperi** (Dmz.) Sacc. Mycoth. Ven. n. 1269. *Dothidea Juniperi* Dmz. VIII. Not. p. 13.

Hab. in foliis adhuc vivis Juniperi communis, Jan. 1878, magna manu (C. Spegazzini).

Obs. Perithecia gregaria v. subsparsa in foliorum pagina superiore superficialia et mox decidua, dimidiato-lenticularia, micr. 200 diam., tenuissime membranacea, radiatim parenchymatico-contexta, fusco-olivacea, poro minuto pertusa. Asci cylindracei sursum

rotundati, basi abrupte breve incurvo-stipitati, 65 ≈ 20, aparaphysati, octospori. Sporidia disticha, v. tristicha, didyma, utrinque rotundata, ad septum leniter constricta, 20–25 ≈ 7–7½, loculo inferiore paulo angustiore, hyalina v. dilutissime chlorina. His notis species hæc ad genus Microthyrium rite meritoque pertinere videtur.

4. **Rosellinia amphisphærioides** Sacc. & Sp. in Mycoth. Ven. n. 1274. Peritheciis sparsis, basi cortice insculptis, rarius semi-immersis, globosis, ¼–⅓ mill. diam., atris, carbonaceis, ostiolo conico papillato; ascis cylindraceis, 90–120 ≈ 10–12, apice rotundatis, deorsum brevissime attenuato-stipitatis, paraphysibus filiformibus guttulatis obvallatis, octosporis; sporidiis recte v. oblique monostichis, ellipsoideis v. oblongo–ellipsoideis, 20 – 22 ≈ 10, utrinque obtusiusculis, quandoque inæquilateralibus, non v. 1–2–guttulatis, olivaceo-fuligineis, subopacis.

Hab. in cortice duriore Populorum *a Vittorio*, Oct. 1877.

5. **Gymnosporium Bambusæ** Thüm. & Bolle Contrib. Funghi Litor. p. 6. fig. 12.

Hab. in foliis emortuis Bambusæ arundinaceæ *a Susegana*, Jan. 1877 (C. Spegazzini).

6. **Stigmella Visianica** *) Sacc. Mycoth. Ven. n. 1289. Acervulis hypophyllis, hinc inde gregariis erumpenti–superficialibus, applanatis, atro-olivaceis, subvelutinis; conidiis e strato proligero celluloso fuligineo oriundis, oblongo-ovoideis, utrinque obtusiusculis, 20–32 ≈ 8–10, 3–(raro 4–)septatis, parceque muriformibus, ad septa vix, ad medium distincte constrictis, sæpe guttulatis, olivaceo-fuligineis, basidiis brevissimis hyalinis crassiusculis suffultis.

Hab. in foliis dejectis Platani orientalis *a Padova*, Febr. 1873 et 1878, frequens in Horto botanico.

*) Ad honorem Magistri olim mei Rob. de Visiani, in studiorum patavina Universitate diu Botanices professoris et ornamenti, de Botanica phanerogamica et palæontologica meritissimi atque celeberrimi, die 4 Maji hujus anni 1878, eheu nobis et scientiæ erepti.

Obs. *Stigmella Platani* Fckl. Beitr. in bot. Zeit. et in Mycoth. Univ. n. 889, quæ verisimillime eadem est ac *Puccinia Platani* Biv. Stirp. rar. Sic. p. 16 t. 3 fig. 5 (1815) *), ab hac recedit conidiis minoribus, nempe 15–20 ≈ 6–8, intensius coloratis, parcius et spurie septatis, non constrictis, episporio crassiore, basidiisque conicis, majoribus, fuscidulis.

7. **Hendersonia paludosa** Sacc. & Sp. Mycoth. Ven. n. 1293. Peritheciis gregariis in parenchymate foliorum immersis amphigenis, circa ostiolum epidermidi hærentibus, globosis, 100–120 micr. diam., papillulatis, vix denique erumpentibus, contextu membranaceo indistincte parenchymatico, fusco; stylosporis fusoideis, utrinque acutiusculis, rectis curvulisve, 50–60 ≈ 9–10, 8–10–septatis, ad septa non v. vix constrictis, grosse 9–11–guttatis, hyalinis.

Hab. in foliis Caricis ripariæ putrescentibus a *Bresséo* (Euganei), Febr. 1878.

Obs. Ab affinibus *H. arundinacea*, *H. subseriata* et *H. Typhoidearum* magnitudine et septatione stylosporarum differt.

8. **Diplodia Ulicis** Sacc. & Sp. Mycoth. Ven. n. 1294. Peritheciis gregariis subcutaneis, dein erumpentibus,

*) Mihi conferenti Bivonæ-Bernhardi Stirp. rar. minusque cognitarum Sicil. manipulum III. (1815) et manipulum IV. (1816) sequentia mycologici argumenti notabilia obvenerunt.

Uredo Convolvuli Biv. (1815) est *Uredo Convolvuli* Str.

Sphæria ulmicola Biv. (1815) est *Stilbospora Uredo* DC (1815) seu *Septoria Ulmi* Fr. (1819).

Sphæria Echinus Biv. (1815) est *Dothidea* (Septoria) *Fraxini* Fr. (1822) seu *Exosporium Fraxini* (Fr.) Niessl. Krypt. Mähr. II. 24. (1865) quæ species aptius ad gen. Cercosporam ducenda videtur.

Puccinia Ulmi Biv. (1815) videtur *Sporidesmii* species.

Puccinia Platani Biv. (1815) est verisimillime *Stigmella Platani* Fckl., ut supra monui.

Puccinia Teucrii Biv. (1815) in Teucrio fruticante! est *Puccinia Beltraniana* Thüm. Mycoth. Univ. n. 734 (1877).

Puccinia Smyrnii Biv. (1816) est *Puccinia Smyrnii* Cda (1840) seu *Puccinia Torquati* Pass. (1871).

Æcidium Bunii f. *Smyrnii Olusatri* DC., Biv. (1816) est *Aecidium Smyrnii* Bagnis (1874).

Erysiphe vagans Biv. (1815) est *Erysibe guttata* Schlecht. (1824).

Erysiphe clandestina Biv. (1815) est *Uncinula Bivonæ* Lév. (1851).

Hæ omnes stirpes iconibus pro tempore optimis descriptionibusque accuratis illustratæ traduntur.

globosis, $^1/_5$ mill. diam., brevissime papillatis; stylosporis ovoideis v. ellipsoideis utrinque obtusiusculis, plerumque continuis, 20–25 ≈ 10–11, olivaceo-fuligineis, sæpius 1–2-guttulatis, basidiis filiformibus, 5 ≈ 1, hyalinis fultis.

Hab. in ramulis Ulicis europæi putrescentibus *a Susegana,* Januario 1878.

9. **Phoma Elæagni** Sacc. Mycoth. Ven. n. 1297. Peritheciis amphigenis, innato-erumpentibus, globosis, 130 micr. diam., papillulatis, nigris; spermatiis elliptico-cylindraceis, 8–11 ≈ 3, minute 2–3guttulatis, hyalinis; basidiis filiformibus, 20–25 ≈ 1, curvulis suffultis.

Hab. in foliis dejectis Elæagni reflexi in Horto botanico Patavino, Jan. 1878.

CORRIGENDA

Valsa ceratophora Sacc. Michelia I p. 20 linea 24 lege *Valsa heteracantha* Sacc.

Massaria fœdans Fr. f. *faginea* Michelia I. p. 40. Hæc est *M. loricata* Tul. Carp. sed a typo *M. fœdantis* Fr. vix ac ne vix differt.

Sporormia gigaspora Speg. Michelia II. 231. Quum antiquior diversaque species homonyma, adsit apud Fuckel (Symb. mycol. App. 1. p. 325) cl. Doct. R. Pirotta in egregia sua Sporormiarum monographia nomen in *Sporormiam Spegazzini* Pir. mutavit.

Ceratostoma Jani-collinum Sacc. & Sp. Michelia II. 246. In ramis Rubi nec Lappæ (ut indicavi) lectum fuit.

Calonectria pyrrochlora (Awd.) Sacc. Michelia II 251. Corrige: *Calonectria Massariæ* (Pass.) Sacc. F. ital. tab. 193.

Pyrenopeziza hysterina Sacc. Michelia II, 254 et Mycoth. Ven. n. 1195 seu *Belonidium hysterinum* Speg. in Thuem Mycoth. Univ. n. 920, præeunte cl. Rehm in litt., eadem species est ac *Micropeziza Graminis* (Dmz.) Rehm Asc. 115, Thuem. Mycoth. Univ. n. 216, seu

Peziza Graminis Dmz. VIII. Notic. p. 5. (1841) seu *Belonidium Hystrix* DNtrs Mycoth. Univ. n. 521 Fateor in mea definitione cl. Karstenio in Mycol. Fennica omnino inhæsisse, in quo eximio opere descriptio *Mollisiæ Graminis* cum *Peziza Graminis* Dmz. minime convenit, nam asci et sporidia dimidio minora describuntur. Descriptio mea l. c. specimina provectiora spectat; cupulæ marginem prosenchymaticum dixi, h. e. libere prosenchymaticum seu dense breve setulosum. Sporidia 4–guttulata vidi nec septata, ob quem characterem, nec non ob contextum excipuli duriusculum et fuligineum, propius species hæc ad genus *Pyrenopizizam* (incl. *Micropeziza*) seu *Mollisiam* Karst. p. p. accedit, quam ad *Belonidium* Dur. & Mtgn.

Diplodia pinea (Dmz.) Kx., Michelia II. 256. Adde: *Hab.* in acubus Pini montanæ in Horto Patavino. Dec. 1876